ORDER NO. VSD9110M616

Service Manual

Panasonic S-VHS VHS PAL 625 Hi-Fi
Professional/Industrial Video

Video Cassette Recorder

AG-7355-E -B

Sec. 1 Operating Instructions
Sec. 2 Disassembly Procedures
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Sec. 6 Block Diagrams
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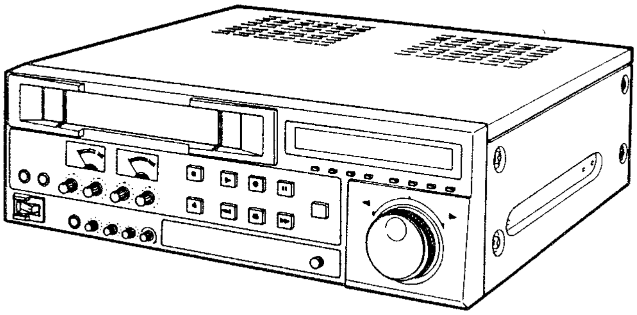

Panasonic

SPECIFICATIONS

ITEM	SPECIFICATION
Power	Source: AC 120~240V, 50~60Hz Consumption: Approx. 59W
Television Format	CCIR standard (625 lines, 50 fields) PAL colour signal, modified SECAM colour signal 4.43MHz modified NTSC colour signal
Tape Speed	23.39mm/s (PAL, modified SECAM), 33.35mm/s (Modified NTSC)
Tape Format	SVHS tape, VHS tape
FF/REW Time	Approx. 2min. with NV-E180
Video	Head: 4 rotary heads, 2 head-helical scanning system 49μm (NOR)×2, 35μm (SS)×2 1 flying (rotary) erase head 97μm×2
	Luminance: FM azimuth recording
	Color signal: Converted subcarrier phase shift recording
	Input level: LINE IN (BNC): 1.0Vp-p, 75Ω unbalanced S-VIDEO IN (4P): Y; 1.0Vp-p, 75Ω unbalanced C; 0.286Vp-p, burst level 75Ω unbalanced
	Output level: LINE OUT (BNC): 1.0Vp-p 75Ω, unbalanced×2 S-VIDEO OUT (4P): Y; 1.0Vp-p 75Ω, unbalanced C; 0.286Vp-p, burst level 75Ω unbalanced
	Signal-to-Noise Ratio (VHS): B/W; 45dB Colour, 45dB
	Horizontal Resolution: B/W; more than 400 lines (S-VHS), 300 lines (VHS) Colour; more than 400 lines (S-VHS), 240 lines (VHS)
Audio	Head: Normal Audio/Control: 1 stationary head Hi-Fi Audio: 2 rotary heads; 36μm×2 Erase: 1 full track erase 1 Audio track erase
Audio	Track: 4 tracks (Normal: 2 tracks, Hi-Fi: 2 tracks)
	Input level: LINE IN Hi-Fi (PHONO): −8dBv, 47kΩ unbalanced×2 LINE IN NORMAL/Hi-Fi (PHONO): −8dBv, 47kΩ unbalanced×2 MIC IN (1/4"): −60dBv, 4.7kΩ unbalanced×2
	Output level: LINE OUT Hi-Fi (PHONO): −8dBv, 600Ω unbalanced×2 LINE OUT NORMAL/Hi-Fi (PHONO): −8dBv, 600Ω unbalanced×2 HEADPHONES (1/4"): −60dBv~−20dBv, 8Ω unbalanced MONITOR OUT (PHONO): 0dBv, 600Ω unbalanced
	Frequency Response: Normal: 50Hz~12kHz Hi-Fi: 20Hz~20kHz
	Hi-Fi Dynamic Range: more than 90dB
	Signal-to-Noise Ratio: better than 48dB (Normal) (with Dolby NR switch ON)
Operating Condition	Temperature; 5°C~40°C (during operation) Humidity; 35%~80%
Dimensions	424mm (W)×131.5mm (H)×424mm (D)
Weight	Approx. 11.2kg
Standard Accessories	34P Interface Adaptor (Mounted on the unit) Power Cord S-VHS cable (4P)
Optional Accessories	RS-232C Interface Adaptor (AG-IA232TC) Remoto Controller (AG-A600) 4P S-VIDEO Cable (AG-C71A, AG-C70A) Rack Mount Adaptor (AG-M730-E)

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

INTRODUCTION

This Service Manual contains all the technical information which allow service personnel to understand and service the Panasonic SVHS Cassette recorder model AG-7355$^{E}_{B}$.
This model was developed for applications in industry, and medical establishments and in addition, it has an optional accessory RS-232C Interface is a capable of satellite communication.
By the use SVHS system, a sharp picture quality with high resolution is obtained, and advanced editing by easy operation is realized by the introduction of high reliability mechanism.

Just slightly ahead of our time...Panasonic

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SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads connectors, control shafts,etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M ohm and 5.2 M ohm.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞.

LEAKAGE CURRENT HOT CHECK
(See Figure 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k ohm, 10 watts resistor, in parallel with a 0.15uF capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

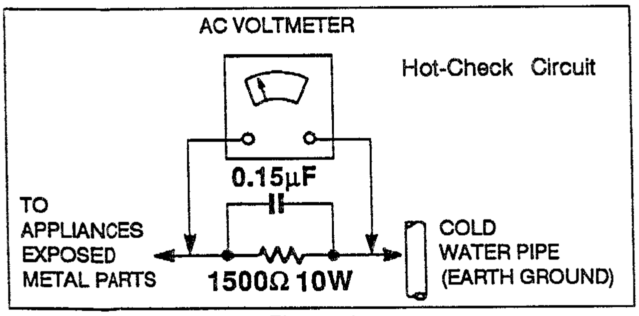
AC VOLTMETER
Hot-Check Circuit
0.15µF
TO APPLIANCES EXPOSED METAL PARTS
1500Ω 10W
COLD WATER PIPE (EARTH GROUND)

Figure 1

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as anti-static can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package untilimmediately before you are ready to install it. (Most replacementES devices are packaged with leads eletcrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION : Be sure no power is applied to the chassis or circuit, and observe all otner asfety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

Section 1

OPERATING INSTRUCTIONS

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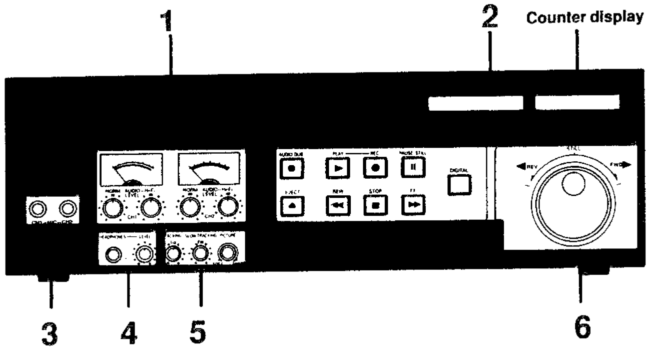
1-1. Front Panel Parts



1. Level control area

Audio (CH1) level meter	Displays CH1 audio level.
Audio (CH2) level meter	Displays CH2 audio level or tracking level.
Audio (CH1) NORMAL LEVEL control	Adjusts recording level for normal audio CH1.
Audio (CH1) HI-FI LEVEL control	Adjusts recording level for Hi-Fi audio CH1.
Audio (CH2) NORMAL LEVEL control	Adjusts recording level for normal audio CH2.
Audio (CH2) HI-FI LEVEL control	Adjusts recording level for Hi-Fi audio CH2.

2 Function display lamp area

Cassette "IN" lamp (⊡)	Lights when a cassette is inserted.
S-VHS lamp (S-VHS)	Lights in S-VHS mode.
Hi-Fi lamp	Lights when Hi-Fi sound is recorded or played back.
DOLBY* NR lamp	Lights when Dolby NR system is used.
One-time playback lamp (↩)	Lights in one-time repeated playback mode.
Memory stop lamp (→000)	Lights in counter (0:00:00) stop mode.
Continuous playback lamp (↻)	Lights in continuous repeated playback mode.

*** Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.**
*** "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.**

3. Microphone area

MIC jacks (CH1/CH2)	Connects 1/4" external microphone.

4. Headphone area

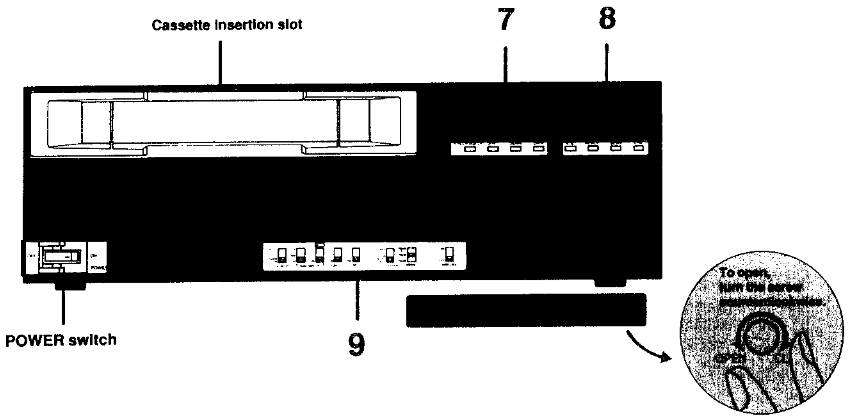
HEADPHONE jack	Connects 1/4" stereo headphones.
HEADPHONE LEVEL control	Adjusts headphones volume.

5. Picture adjusting area

TRACKING control	Adjusts tracking.
SLOW TRACKING control	Adjusts slow motion tracking.
PICTURE adjusting knob	Adjusts picture sharpness during playback.

6. Basic operation area

AUDIO DUB button	Starts audio dubbing when used together with PLAY button during playback.
PLAY button	Starts playback.
REC button	Starts recording when used together with PLAY button.
PAUSE/STILL button	Establishes still-picture mode during playback and pause mode during recording.
EJECT button	For ejecting the cassette.
REW button	Rewinds the tape.
STOP button	Stops all operations.
FF button	Fast forwards the tape.
DIGITAL button	Executes digital still playback.
Search/JOG dial	Adjusts search speed.



7. Menu setting area

SCREEN DISPLAY button	Displays initial setting menu on the screen.
SHIFT button	Changes the menu pages and shifts the flashing of the indicator rightward.
DOWN button	Shifts the flashing of the line indicator downward.
DATA button	Inputs the digit data and selects the data.

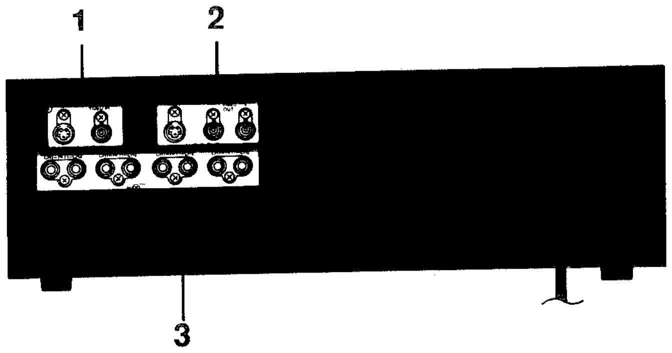
8. Function setting area

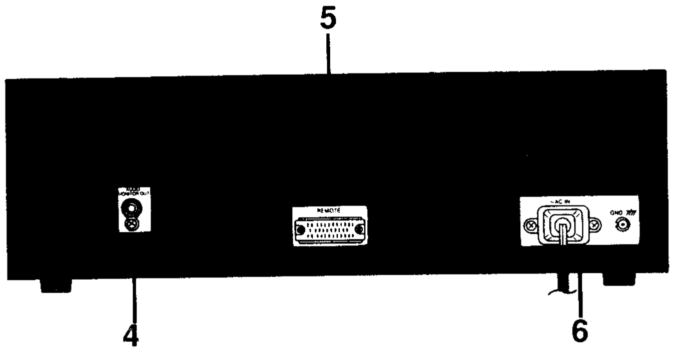
RESET button	Resets the tape counter.
MEMORY button	Sets the memory auto stop and selects the repeat mode.
BEGIN button	Sets the repeat beginning point.
END button	Sets the repeat ending point.

9 Function setting area

CH2 METER selector	Selects between Audio CH2 Level Meter and Tracking Meter for Audio (CH2) level meter.
AUDIO MONITOR meter selectors	Selects type of sound and channel to be monitored.
AUDIO OUT selector	Selects type of sound to be output from Audio Output Jacks.
INPUT signal selector	Selects video input signal.
DIGITAL selector	Selects frame or field in the digital still-picture mode.
MODE LOCK selector	Inhibits function of the front panel buttons.
TV SYSTEM selector	Selects the 3 VHS system, PAL, CCIR and NTSC 4.43.

1-2. Rear Panel Parts





1. Video input signal area

S-VIDEO IN connector	S-VIDEO signal input connector.
VIDEO IN connector	Video signal input connector.

2. Video output signal area

S-VIDEO OUT connector	S-VIDEO signal output connector.
VIDEO OUT (1, 2) connectors	Video signal output connectors.

3. Audio signal area

NORM/Hi-Fi audio input connectors	NORM/Hi-Fi audio (CH1/2) input connectors.
Hi-Fi audio input connectors	Input connectors for Hi-Fi sound only.
NORM/Hi-Fi audio output connectors	NORM/Hi-Fi audio (CH1/2) output connectors.
Hi-Fi audio output connectors	Input connectors for Hi-Fi sound only.

4. Monitor output area

AUDIO MONITOR OUT connector	Audio monitor signal output connector.

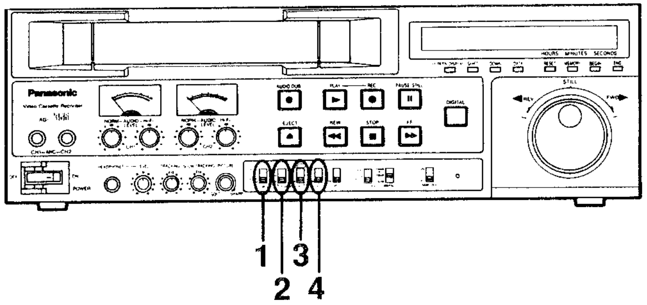
5. Remote signal area

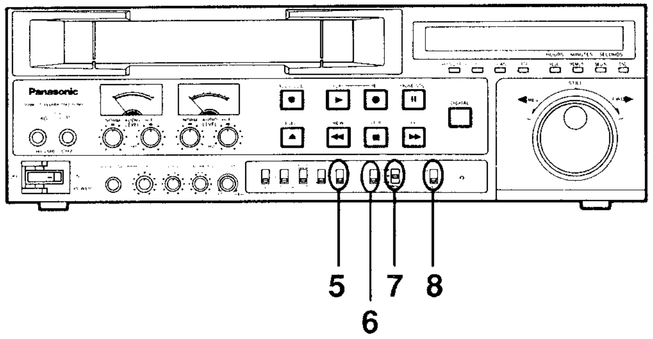
REMOTE connector	Connector for remote search controller (AG-A600).

6. Power supply circuit area

AC IN socket	Connected to AC 120-240V power outlet.
GND terminal	When connecting this unit to any other component, make absolutely sure that it is properly grounded by connecting this terminal.

1-3. Setting the Switches





1. CH2 METER Selector

TRACKING
AUDIO CH2
CH2 METER

Used to adjust the audio (CH2) input level during recording. Set this selector to "AUDIO CH2" before making adjustment for the recording level of audio channel 2.

2. AUDIO MONITOR Selector

CH1
MIX
CH2
AUDIO MONITOR

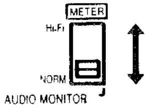
Used to select the audio channel which is to be heard on the TV monitor or headphones through the HEADPHONE Jack on the front panel or the AUDIO MONITOR OUT connector on the rear panel of the unit.

CH1: To monitor the audio signal from channel 1.

MIX: To monitor the mixed audio signals from channels 1 and 2 through the AUDIO MONITOR OUT connector or HEADPHONES Jack. When using headphones, audio channels 1 (left) and 2 (right) can be monitored separately.

CH2: To monitor the audio signal channel 2.

3. METER Selector

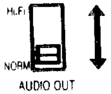


Used to display the recording level of Hi-Fi audio or normal audio on the LEVEL meter and select the audio output signal from the HEADPHONES Jack on the front panel or the AUDIO MONITOR OUT connector on the rear panel.

Hi-Fi: Selects Hi-Fi audio.

NORM: Selects normal audio.

4. AUDIO OUT Selector

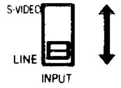


Used to select the audio output signal from the NORM/Hi-Fi audio output connectors on the rear panel.

Hi-Fi: Discriminates between Hi-Fi and normal audio automatically. When there is no Hi-Fi audio output signal, normal audio will be automatically outputted.

NORM: Normal audio is outputted.

5. INPUT Signal Selector

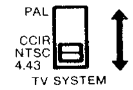


Used to select video input signal to be recorded.

S-VIDEO: To record video signal through the S-VIDEO IN Connector

LINE: To record video signal through the VIDEO IN Connector.

6. TV SYSTEM Selector



Used to select the 3 VHS system.

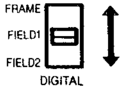
PAL: To playback or record by PAL system.

CCIR: To playback or record by CCIR system. (S-VHS recording can not be made.)

NTSC 4.43: To playback tapes recorded by NTSC system. (Recording cannot be performed.)

- PAL and CCIR sytems can not be distinguished automatically.
- If REC and PLAY Buttons are pressed simultaneously when this selector is set to "NTSC 4.43", the unit will automatically go into playback mode.

7. Digital Selector



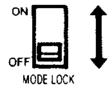
Used to select frame or field in the digital still-picture mode.

FRAME: For digital still playback of frame video signals.

FIELD1: For digital still playback of field 1 video signals.

FIELD2: For digital still playback of field 2 video signals.

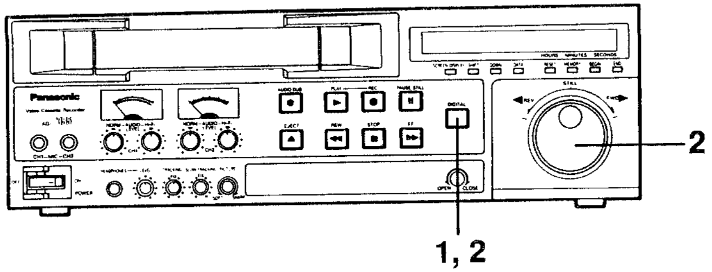
8. MODE LOCK Selector



ON: To operate the unit with a remote controller. When this switch is set to this position, the operation buttons on the front panel of the unit will be rendered inoperative.

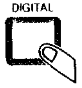
OFF: When this switch is set to this position, the operation buttons on the front panel are operative and the unit can also be controlled with the remote controller.

1-4. Digital Still Playback Operations



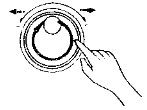
1. To establish digital still playback during playback mode

- Press the DIGITAL button during playback.
  The DIGITAL button lamp lights and the digital still-picture mode is established.



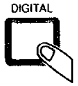
2. To establish digital still playback during pause mode

[1] Use the JOG function to search for the scene to be viewed in the digital memory.



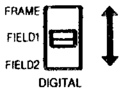
[2] Press the DIGITAL button at the desired scene.

- The VTR moves the tape in the reverse direction for about 1 second and then plays it back so that the scene in question can be viewed as a digital still-picture.



MEMO

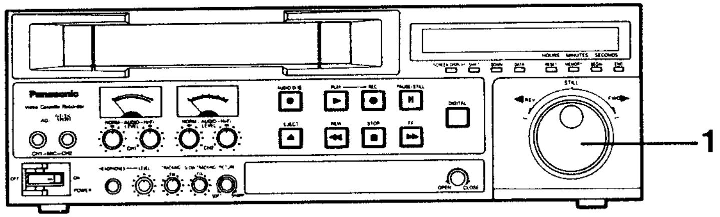
- The frame/field 1/field 2 video signals can be selected by setting the DIGITAL selector.



Notes

- If noise should appear on the screen, the VTR will not operate normally when it is set to the digital still-picture mode.
- If colour video signals are recorded in either field 1 or field 2 and then black-and-white video signals are recorded in the other field, the pictures in both field 1 and field 2 will appear in black and white. If, on the other hand, black-and-white and video signals are recorded first and then colour signals are recorded later, noise will appear with the black-and-white video signals.
- This unit does not accept copy guard signals.
- This function cannot be controlled from the 34P remote connector. It can be controlled, however, by using the optional RS-232C Interface Adaptor (AG-IA232TC).
- You cannot obtain a digital still picture using a tape that has been recorded in the NTSC or CCIR format.

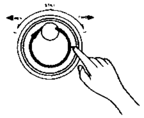
1-5. Search Operations



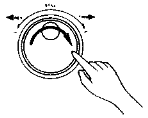
1. Operate the SEARCH/JOG Dial.

The inner part dial is JOG mode while the outer part dial is SHUTTLE mode.

- When the SEARCH/JOG Dial is rotated clockwise, the tape will be played back in the forward direction (the FWD indicator appears). When it is rotated counterclockwise, the tape will be played back in the reverse direction (the REV indicator appears).



[1] **JOG mode** (SHUTTLE mode dial at centre position.)
In response to the speed at which the inner part dial is turned, the tape can be played back at a speed ranging from still picture to ±1× normal tape speed.
When the turning is stopped, a still picture is always produced.

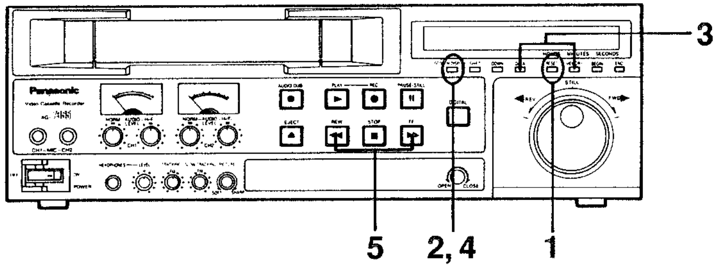


[2] **SHUTTLE mode**
When the outer part dial is rotated in the SHUTTLE mode, the tape speed will be changed depending on the position of the SEARCH/JOG Dial. The tape speed can be changed from 0 (ie, STILL playback) to 9 times the normal tape speed.
The still picture is obtained when the SEARCH/JOG Dial is set to the centre fix position (click-stop).

Note

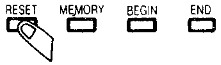
- The VTR is always set to the direct search mode. Turn the outer search dial in order to set it to the search mode.

1-6. MEMORY STOP Function



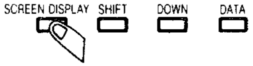
1. Press the RESET Button at the point to be automatically stopped.

- The tape counter will be reset to "0:00:00".


RESET
MEMORY
BEGIN
END

2. Press the SCREEN DISPLAY Button.

- The ON-SCREEN menu will be displayed on the TV monitor.

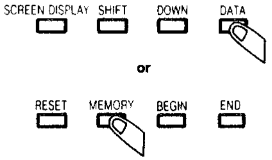

SCREEN DISPLAY
SHIFT
DOWN
DATA

3. Press the DATA or MEMORY Button.

- Select the "MEMORY STOP" mode.

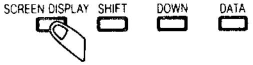
```
MEMORY STOP
BGN+0 : 00 : 00
END+0 : 00 : 00
```

("→000" lamp lights up in the counter.)


SCREEN DISPLAY
SHIFT
DOWN
DATA
or
RESET
MEMORY
BEGIN
END

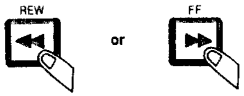
4. Press the SCREEN DISPLAY Button.

- The normal picture will appear.


SCREEN DISPLAY
SHIFT
DOWN
DATA

5. Press the FF or REW Button.

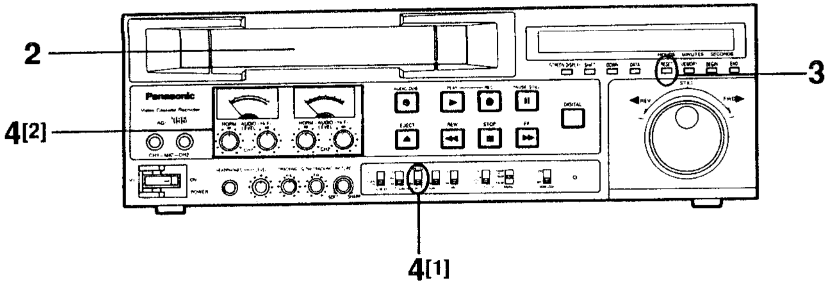
- When the FF or REW Button is pressed, the tape will be wound and then stopped automatically around the tape counter position "0:00:00".

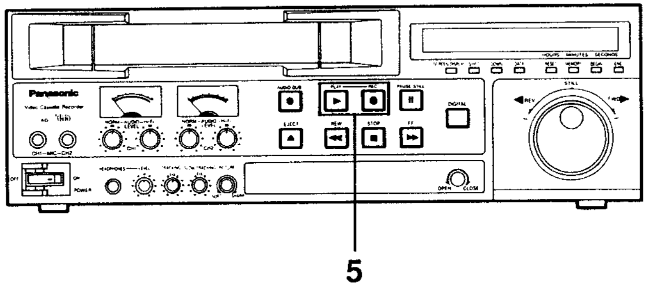


Notes

- MEMORY STOP function is also available by just pressing the MEMORY Button at the position except "0:00:00"after step 1 described above.
- When finished with this function, be sure to select "MEMORY OFF" at step 3 described above.("→000" lamp goes off in the counter.)

1-7. Recording

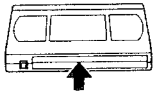




1. Set the selectors.

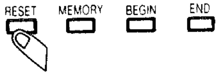
INPUT Selector → "LINE" or "S-VIDEO" (Refer to page 12.)
TV SYSTEM Selector → "PAL" or "CCIR" (Refer to page 12.)
S-VHS (ON-SCREEN) → "ON" (Refer to pages 29 to 31.)

2. Insert the video cassette.



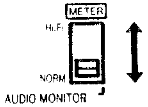
- Make sure that the erasure prevention tab on the video cassette is intact.

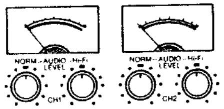
3. Press the RESET Button.



- The tape counter will be cleared.

4. Adjust the audio recording level.

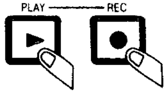




[1] Select Hi-Fi audio or normal audio to be adjusted with the METER Selector.
HI-FI: Hi-Fi audio recording level is displayed on the LEVEL meter.
NORM: Normal audio recording level is displayed.

[2] Level adjustment
Adjust the recording level of Hi-Fi audio or normal audio by rotating the audio level controls (CH1 and CH2) until the LEVEL meters point their maximum positions below "0".

5. Press the REC and PLAY Buttons together.

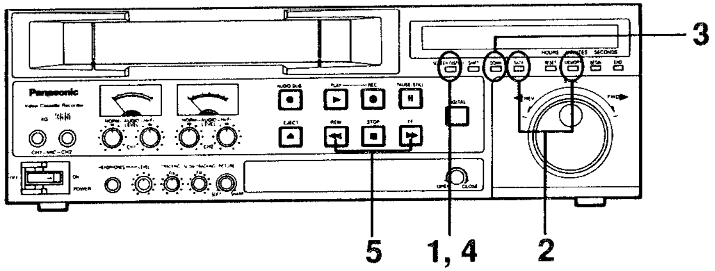


- Recording will start.

Notes

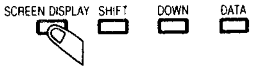
- The DOLBY NR system's initial setting can be selected in the ON-SCREEN mode.
  - The DOLBY NR system permits audio recording and playback with less noise.
- Set the "HI-FI REC" mode in the initial setting menu on the TV monitor (ON-SCREEN) to "ON" to perform Hi-Fi audio recording.
- If Hi-Fi audio recording is not intended, be sure to not only set the LEVEL meter to "0", but also the "HI-FI REC" mode of the ON-SCREEN to "OFF".
- Recording in NTSC system cannot be performed. Recording can only be performed in PAL or CCIR system.

1-8. Repeat Playback


3
5
1, 4
2
Panasonic

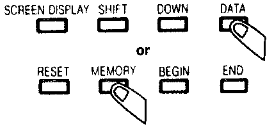
1. Press the SCREEN DISPLAY Button.

- The ON-SCREEN menu will be displayed on the TV monitor.


SCREEN DISPLAY
SHIFT
DOWN
DATA

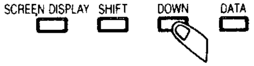
2. Press the DATA or MEMORY Button.

- Select the repeating mode (one-time or continuous repeated playback mode).
  The " ⇆ " or " ↻ " mark will appear on the tape counter.


SCREEN DISPLAY
SHIFT
DOWN
DATA
or
RESET
MEMORY
BEGIN
END

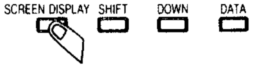
3. Press the DOWN Button.

- Press the SHIFT and DATA Buttons to locate the beginning and end points of section you wish to perform REPEAT playback.


SCREEN DISPLAY
SHIFT
DOWN
DATA

4. Press the SCREEN DISPLAY Button.

- The normal screen will appear.


SCREEN DISPLAY
SHIFT
DOWN
DATA

5. Press the FF or REW Button.

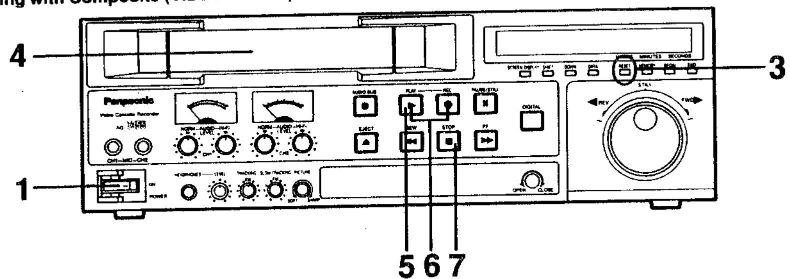
- When the tape reaches the beginning (BGN) points, REPEAT playback will start automatically.

Notes

- When same data is input for BGN and END, repeat playback is performed from the tape beginning to the end.
- When the data for END has exceeded the tape end, repeat palyback is performed from the BGN position to the tape end.
- When the data for BGN is smaller than the tape beginning, repeat playback is performed from the tape beginning to the END position.

1-9. Dubbing

Dubbing with Composite (VIDEO IN/OUT) Connector



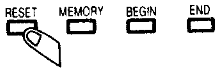
1. **Turn on both of the player and recorder.**

2. **Set the selectors.**

Recorder side
INPUT Selector → "LINE" (Refer to page 12.)
ON-SCREEN (MEMORY) → "MEMORY OFF" (Refer to pages 27 to 28.)

Player side
ON-SCREEN (MEMORY) → "MEMORY OFF" (Refer to pages 27 to 28.)
EDIT (ON-SCREEN) → "ON" (Refer to pages 29 to 31.)

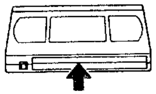
3. **Press the RESET Button to reset the tape counter to "0:00:00".**



4. **Insert video cassettes.**

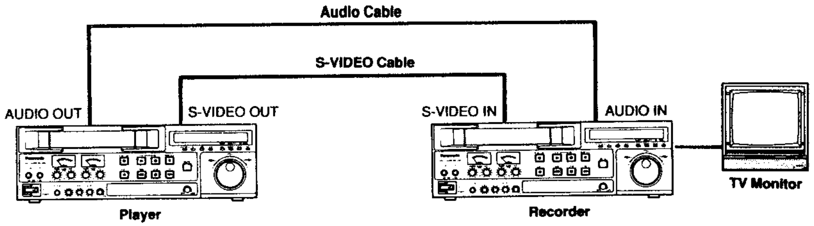
Insert a recorded video cassette in the player and a blank video cassette in the recorder.

- Make sure that the erasure prevention tab on the recorder video cassette is intact.

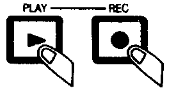


5. **Press the PLAY Button on the player.**

Connections



6. **Press the REC and PLAY Buttons together on the recorder at the tape position to start dubbing.**



7. **Press the STOP Button to stop the dubbing.**

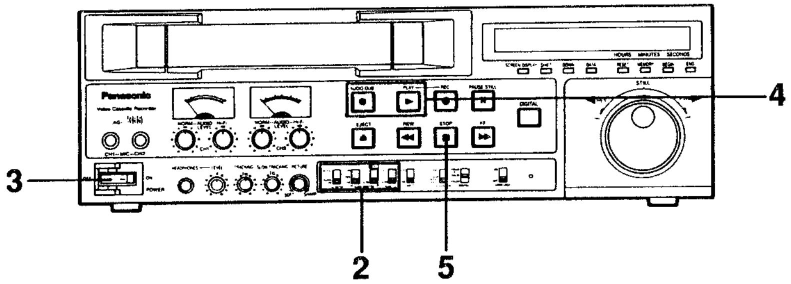
MEMO

- The SEARCH/JOG Dial is convenient to locate the tape segment to be dubbed. Follow the steps instructed below.
  1) Make the search speed constant by using the SEARCH/JOG Dial.
  2) Press the PAUSE/STILL Button to activate the STILL mode.
  3) If you wish to inch (move slightly) the tape in the forward or reverse direction, press the PAUSE/STILL Button again to release the STILL mode.
  4) Repeat steps 1)~3) until the desired segment is located.

Note

- Be sure to return the "EDIT" ON-SCREEN (initial setting) on the player VTR to "OFF" after dubbing is finished. (Refer to pages 29 to 31.)

1-10. AUDIO Dubbing



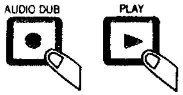
1. Set the selectors.

INPUT Selector → "LINE" (Refer to page 12.)
AUDIO DUB (ON-SCREEN) → "CH1" or "CH2" (Refer to pages 29 to 31.)
ON-SCREEN (MEMORY) → "MEMORY OFF" (Refer to pages 27 to 28.)

2. Make necessary settings of audio switches.

Refer to page 11.

3. Press the AUDIO DUB and PLAY Buttons together.



- Audio dubbing will start.

4. Press the STOP Button to stop audio dubbing.

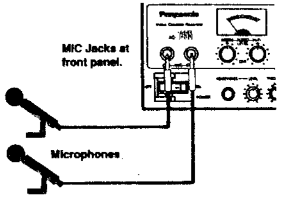
MEMO

- The SEARCH/JOG Dial is convenient to locate the tape segment to be dubbed. Follow the steps instructed below.

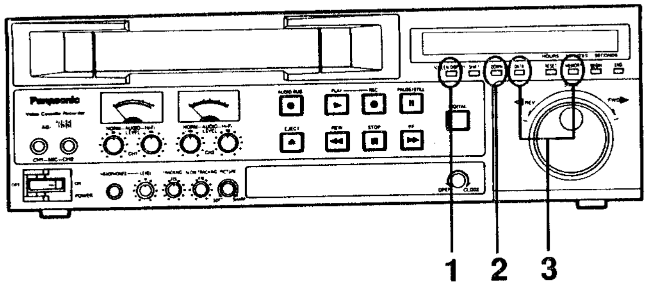
1) Make the search speed constant by using the SEARCH/JOG Dial.
2) Press the PAUSE/STILL Button to activate the STILL mode.
3) If you wish to inch (move slightly) the tape in the forward or reverse direction, press the PAUSE/STILL Button again to release the STILL mode.
4) Repeat steps 1)~3) until the desired segment is located.

Notes

- If the microphone and audio cables are connected at the same time, only microphone sound will be recorded.
- Hi-Fi effect cannot be obtained by audio dubbing.

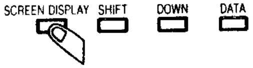


1-11. ON-SCREEN (Memory Setting)



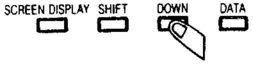
1. Press the SCREEN DISPLAY Button.

- The unit goes into the ON-SCREEN mode and the MEMORY setting menu will display on the screen.


SCREEN DISPLAY
SHIFT
DOWN
DATA

2. Press the DOWN Button.

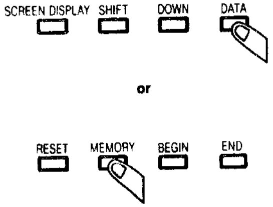
- The "MEMORY" indication line will flash. Each time the DOWN Button is pressed, the flashing indication will be shifted to "BGN" → "END" → "MEMORY" line.


SCREEN DISPLAY
SHIFT
DOWN
DATA

```
MEMORY OFF              MEMORY OFF              MEMORY OFF
BGN+0 : 00 : 00    →    BGN+0 : 00 : 00    →    BGN+0 : 00 : 00
END +0 : 00 : 00        END +0 : 00 : 00        END +0 : 00 : 00
```

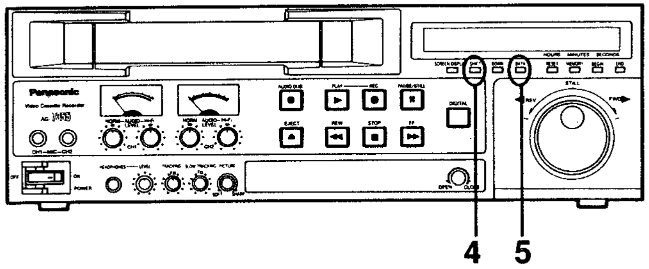
3. Press the DATA or MEMORY Button.

- Select the desired mode while the "MEMORY" indication line is highlighted.


SCREEN DISPLAY
SHIFT
DOWN
DATA
or
RESET
MEMORY
BEGIN
END

```
MEMORY OFF
BGN+0 : 00 : 00
END +0 : 00 : 00
```

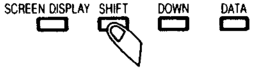
"MEMORY OFF" (No Indication) → "MEMORY STOP" (➜000) → "REPEAT 1 TIME" (⮐) → "REPEAT CONTINUE" (↻)



4. Press the SHIFT Button.

The digit to be set will move. The digit is flashing during selection of the desired numeric.

- This step is activated while "BGN" or "END" is highlighted.

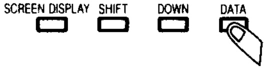

SCREEN DISPLAY
SHIFT
DOWN
DATA

```
MEMORY OFF              MEMORY OFF
BGN+0 : 00 : 00    →    BGN+0 : 00 : 00
END +0 : 00 : 00        END +0 : 00 : 00
```

5. Press the DATA Button.

Set the desired numeric and select "+" or "–".

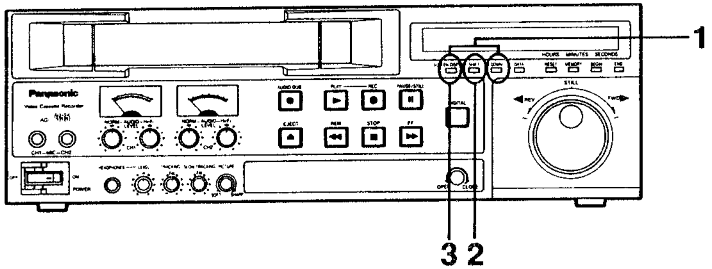
- This step is activated while "BGN" or "END" is highlighted.


SCREEN DISPLAY
SHIFT
DOWN
DATA

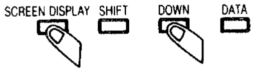
```
MEMORY OFF              MEMORY OFF
BGN+0 : 00 : 00    →    BGN–0 : 10 : 00
END +0 : 00 : 00        END +0 : 00 : 00
```

Superimpose display	Description of function
MEMORY OFF	Counter memory is off.
MEMORY STOP	The tape stops at the counter position "0:00:00".
REPEAT 1 TIME	Performs one-time REPEAT playback.
REPEAT CONTINUE	Performs continuous REPEAT playback.
BGN	Beginning point of REPEAT playback.
END	End point of REPEAT playback.

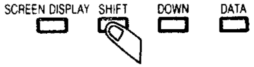
1-12. ON-SCREEN (Initial Setting)

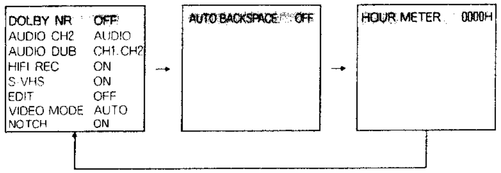


1. **Press the DOWN and SCREEN DISPLAY Buttons together.**
   - The unit goes into the ON-SCREEN mode and the initial setting menu will display on the screen.


SCREEN DISPLAY
SHIFT
DOWN
DATA

2. **Press the SHIFT Button.**
   - Each time the SHIFT Button is pressed, the screen will be changed as follows.


SCREEN DISPLAY
SHIFT
DOWN
DATA

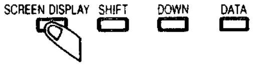


```
DOLBY NR     OFF
AUDIO CH2    AUDIO
AUDIO DUB    CH1.CH2
HIFI REC     ON
S-VHS        ON
EDIT         OFF
VIDEO MODE   AUTO
NOTCH        ON
```

```
AUTO BACKSPACE   OFF
```

```
HOUR METER    0000H
```

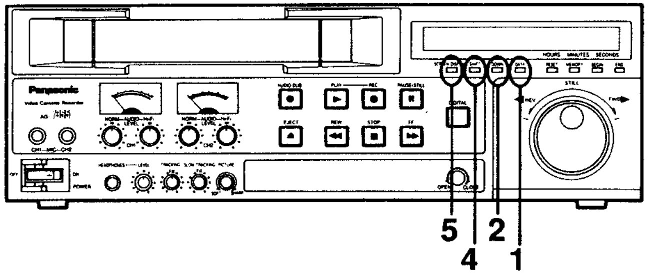
3. **Press the SCREEN DISPLAY Button after setting is finished.**
   - Normal screen will appear.


SCREEN DISPLAY
SHIFT
DOWN
DATA

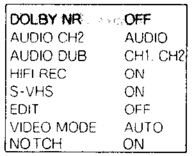
Note

- If the SCREEN DISPLAY Button is pressed in the initial setting mode, the screen will return to normal.

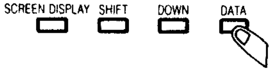
- **How to set each initial setting item**



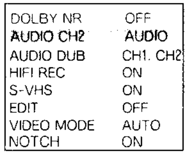
1. **Press the DATA Button.**
   - Select "ON" or "OFF".



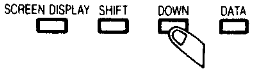
```
DOLBY NR     OFF
AUDIO CH2    AUDIO
AUDIO DUB    CH1. CH2
HIFI REC     ON
S-VHS        ON
EDIT         OFF
VIDEO MODE   AUTO
NOTCH        ON
```


SCREEN DISPLAY
SHIFT
DOWN
DATA

2. **Press the DOWN Button.**
   - The next item will flash.

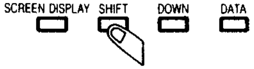


```
DOLBY NR     OFF
AUDIO CH2    AUDIO
AUDIO DUB    CH1. CH2
HIFI REC     ON
S-VHS        ON
EDIT         OFF
VIDEO MODE   AUTO
NOTCH        ON
```

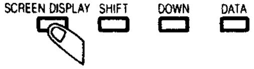

SCREEN DISPLAY
SHIFT
DOWN
DATA

3. **Repeat steps 1 and 2 to set each item to the desired mode.**

4. **Press the SHIFT Button to shift the screen to the next menu.**
   - Repeat steps 1 and 2 to set each item mode.


SCREEN DISPLAY
SHIFT
DOWN
DATA

5. **Press the SCREEN DISPLAY Button after setting is finished to return to the normal screen.**


SCREEN DISPLAY
SHIFT
DOWN
DATA

■ Contents of each initial setting item

DATA Button: To select operation mode
DOWN Button: To move to the next item
SHIFT Button: To shift to next menu screen

<table>
<tr><th>Superimpose</th><th>Description of function</th><th>Initial mode</th></tr>
<tr><td>DOLBY NR</td><td>Sets the DOLBY NR function ON or OFF.
ON: Dolby NR system is activated.
OFF: Dolby NR system is not activated.
■ DOLBY Noise Reduction System<table><tr><th>PLAY / REC</th><th>ON</th><th>OFF</th></tr><tr><td>**ON**</td><td>Normal sound with less noise.</td><td>Treble is emphasized.</td></tr><tr><td>**OFF**</td><td>Treble is attenuated.</td><td>Normal sound</td></tr></table>*DOLBY NR system is activated when normal audio is reproduced.</td><td>OFF</td></tr>
<tr><td>AUDIO CH2
(When using RS-232C I/F adaptor only)</td><td>Selects the signal to be recorded or played back on audio channel 2.
AUDIO: Audio signal is recorded/played back.
TIME CODE: Time code signal is recorded/played back. (Sound track of channel 2 will be muted.)</td><td>AUDIO</td></tr>
<tr><td>AUDIO DUB</td><td>Selects the audio track CH1 or CH2 for audio dubbing.
CH1: Audio is recorded on channel 1.
CH1, CH2: Audio is recorded on both channels 1 and 2.
CH2: Audio is recorded on channel 2.</td><td>CH1, CH2</td></tr>
<tr><td>HIFI REC</td><td>Sets the Hi-Fi audio recording.
ON: Hi-Fi audio is recorded.
OFF: Hi-Fi audio is not recorded.</td><td>ON</td></tr>
<tr><td>S-VHS</td><td>Sets the recording mode.
ON: Distinguishes between the VHS and S-VHS tapes and determines the recording mode.
OFF: VHS recording is performed.</td><td>ON</td></tr>
<tr><td>EDIT</td><td>Sets the editing mode.
ON: To edit or duplicate tapes (dubbing).
OFF: For normal operation.</td><td>OFF</td></tr>
<tr><td>VIDEO MODE</td><td>Selects the colour mode of video input signal.
COLOUR: Forcibly colour mode.
AUTO: Automatically distinguishes between black & white and colour video input signals.
B&W: Forcibly black & white mode.</td><td>AUTO</td></tr>
<tr><td>NOTCH</td><td>Selects whether to reduce noise or not.
ON: When noise appears during composite input.
OFF: When noise do not appear during composite input.</td><td>ON</td></tr>
<tr><td>AUTO BACKSPACE</td><td>Sets the Auto Backspace function ON and OFF.
ON: The unit rewinds the tape for about 1 second and goes into the PAUSE mode when the REC Button is pressed during the PAUSE/STILL mode or the PAUSE/STILL Button is pressed during recording. Then when the PAUSE/STILL Button is pressed, the unit playbacks the tape for about a secound and goes into the recording mode.
OFF: For normal PAUSE/STILL operation.</td><td>OFF</td></tr>
<tr><td>HOUR METER</td><td>Displays the total of the cylinder driving time.</td><td>0000H</td></tr>
</table>

1-13. Error Displays

The following error messages will be displayed on the tape counter if an abnormality occurs in the unit. In this case, follow instructions described below.

Error display	Problem	Remedy
d	Condensation (dew) forms inside the unit.	Wait until "d" goes out with the power on. (Refer to "In case of dew detection".)
E-2	Elevator Lock trouble	Contact your local dealer.
E-3	Loading Lock trouble	Contact your local dealer.
E-4	Cylinder Lock trouble	Contact your local dealer.
E-5	Reel Lock trouble	Contact your local dealer.
E-6	Tension trouble	Contact your local dealer.

Note

- ■ If the error messages except the indication "d" are displayed, turn OFF the unit immediately and disconnect the power cord from the mains to prevent the unit from serious damage before contacting your authorized service personnel.

In case of dew detection

When condensation (dew, so-called sweating) forms inside the unit, the error message "d" will be displayed on the counter and all the operation buttons are made inoperative. Leave the unit on and let it remain at room temperature until "d" disappears. Depending on the surrounding condition, this may take several hours.

Cause of condensation

Condensation forms if warm air comes in contact with a cold object, for example on a window in a well-heated room in winter. It may form if the unit or the video cassette is exposed to sudden changes in temperature and humidity such as may occur when the unit or the video cassette is taken from a cold to a warm place. For instance:

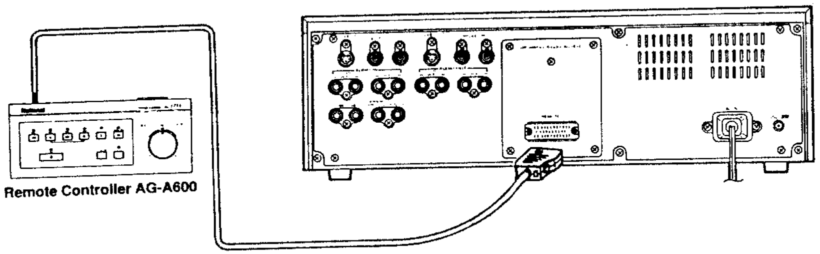
- ■ In a room where the heater has just been turned on in winter;
- ■ In a room with steam or high humidity;
- ■ If the unit or the cassette is brought from cold surroundings into a well-heated room.

> Moisture condensation normally occurs gradually. Therefore, there may be cases in which the "d" indicator does not start flashing until 10 or 15 minutes after moisture has begun to condense. In particular, if the temperature or humidity in the room change, wait about 20 minutes before using the unit.

1-14. Controller (Option)

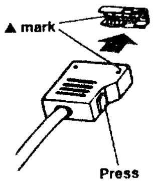
- **Remote Controller AG-A600**

Connection



The optional Remote Controller AG-A600 allows RECORD, PLAYBACK, FAST FORWARD, REWIND, PAUSE/STILL, VARIABLE SPEED PLAYBACK (0~9 times normal tape speed) in forward or reverse direction and STOP operations. Operation is possible with the unit's operation buttons even when the AG-A600 is connected to the unit.

Connection with the REMOTE Connector



Align the " ▲ " marks and connect it to the REMOTE Connector while keeping the cable connector button pressed.

1-15. Rack Mount Adaptor (Option)

The Rack Mount Adaptor AG-M730-E is used to mount the unit on the IEC standard rack.

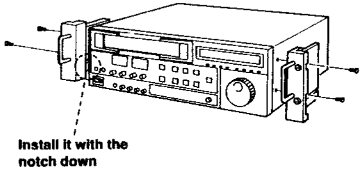
Installation of the AG-M730-E

1. Remove the 4 screws

from the side cabinet of the unit.

2. Use the 4 screws supplied

with the AG-M730-E to install it to the unit.



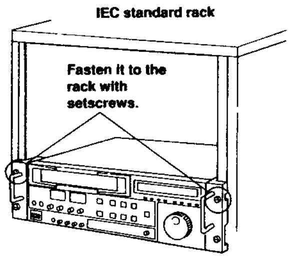
Mounting on the IEC standard rack

1. Remove the 4 rubber legs

from the bottom of the unit.

2. Mount the unit on the rack.

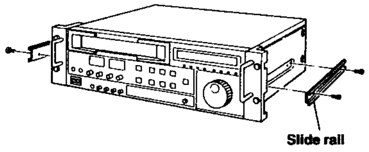
- Be sure to install a ventilation fan (air volume of about 3.3 m 2/sec.) on the top of the rack.

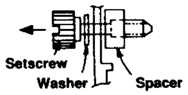


Installation of slide rails

- Use a complete slide rail and bracket unit for 18" length (part No. CC3004-99-0017) or 24" length (part No. CC3004-99-0018) of Chassis Track. (The complete slide rail and bracket unit is not available from Panasonic.)
- When using the slide rail, remove the setscrews. The setscrews can be removed by pulling in the direction of the arrow. Keep the removed setscrews, washers and spacers in a proper place.

- For the details, contact your local dealer.





1-16. Connector Signal

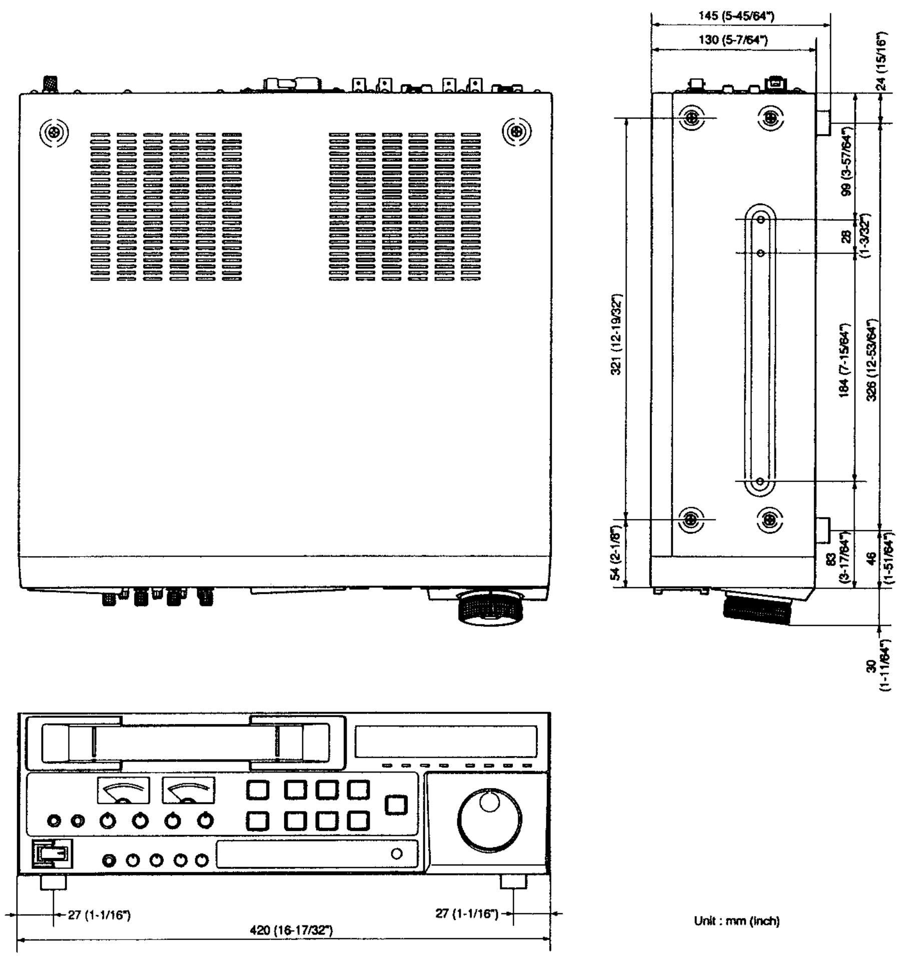
S-VIDEO IN/OUT Connectors

Pin No.	Description of signal
1	Y GND
2	C GND
3	Y signal
4	C signal

34P REMOTE Connector

Pin No.	Description of signal
1	REC SWITCH
2	PLAY SWITCH
3	FF SWITCH
4	REW SWITCH
5	STOP SWITCH
6	AUDIO DUB SWITCH
7	PAUSE SWITCH
8	CASSETTE IN
9	AUDIO DUB SWITCH
10	—
11	—
12	GND
13	FRAME ADV. SWITCH
14	REVERSE COUNT
15	—
16	EDIT WITCH
17	REVERSE
18	CONTROL PULSE OUT
19	REMOTE 19
20	START MARK
21	EJECT SWITCH
22	—
23	REC HOLD
24	PLAY HOLD
25	FF HOLD
26	REW HOLD
27	—
28	AUDIO DUB HOLD
29	PAUSE HOLD
30	REMOTE 30
31	AUDIO DUB HOLD
32	—
33	REMOTE 33
34	+ 12 V

1-17. Dimensions


145 (5-45/64")
130 (5-7/64")
24 (15/16")
99 (3-57/64")
28 (1-3/32")
321 (12-19/32")
184 (7-15/64")
326 (12-53/64")
54 (2-1/8")
83 (3-17/64")
46 (1-51/64")
30 (1-11/64")
27 (1-1/16")
27 (1-1/16")
420 (16-17/32")

Unit : mm (inch)

Section 2

DISASSEMBLY PROCEDURES

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SCREWS 2-8

2–1. DISASSEMBLY FLOW CHART

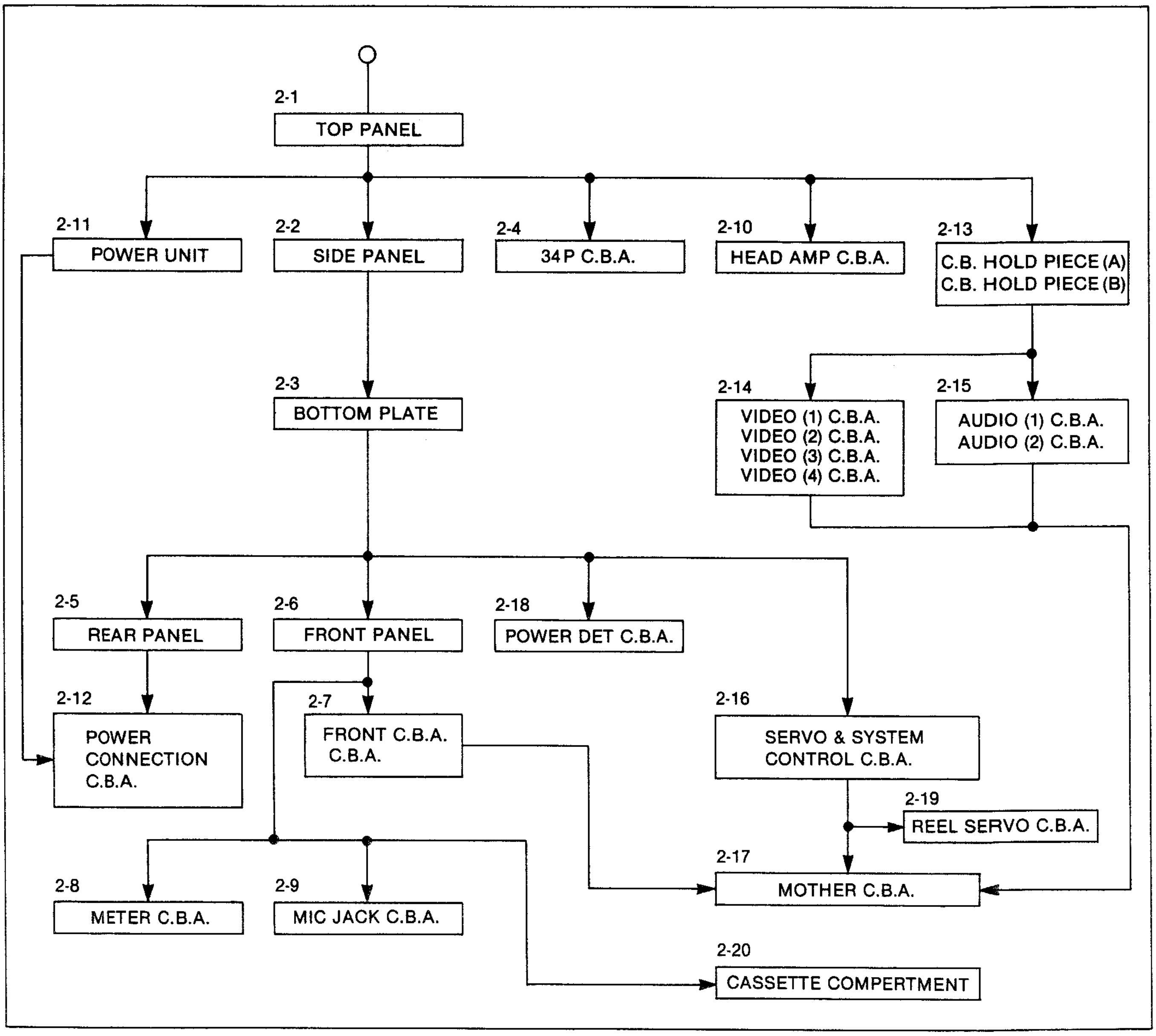

2-1
TOP PANEL
2-11
POWER UNIT
2-2
SIDE PANEL
2-4
34P C.B.A.
2-10
HEAD AMP C.B.A.
2-13
C.B. HOLD PIECE (A)
C.B. HOLD PIECE (B)
2-3
BOTTOM PLATE
2-14
VIDEO (1) C.B.A.
VIDEO (2) C.B.A.
VIDEO (3) C.B.A.
VIDEO (4) C.B.A.
2-15
AUDIO (1) C.B.A.
AUDIO (2) C.B.A.
2-5
REAR PANEL
2-6
FRONT PANEL
2-18
POWER DET C.B.A.
2-12
POWER CONNECTION C.B.A.
2-7
FRONT C.B.A.
C.B.A.
2-16
SERVO & SYSTEM CONTROL C.B.A.
2-19
REEL SERVO C.B.A.
2-17
MOTHER C.B.A.
2-8
METER C.B.A.
2-9
MIC JACK C.B.A.
2-20
CASSETTE COMPERTMENT

Figure D1

The above flow chart describes the order of steps for removing the cabinet parts and certain printed circuit boards in order to gain access to the items needing servicing. To reassemble the unit, follow the steps in reverse order.

2-2. DETAILED DISASSEMBLY METHOD

2-2-1. Removal of the Top Panel

1. Unscrew the 2 screws (A) on the Top Panel (Figure D2).
2. Careful lift the rear of the case and side it off the back of the unit.

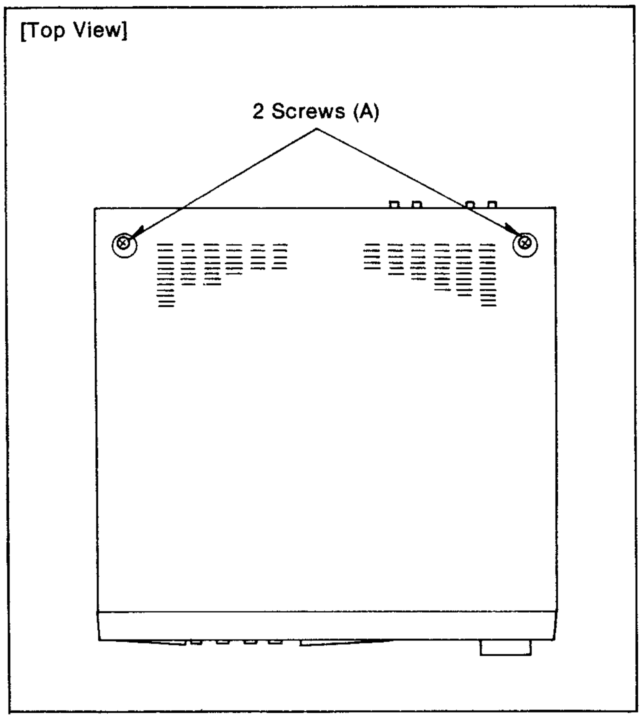

[Top View]
2 Screws (A)

Figure D2

2-2-2. Removal of the Side Panels

1. Unscrew the 8 screws (B) on the Side Panels (Figure D3).
2. Lift the Side Panels.

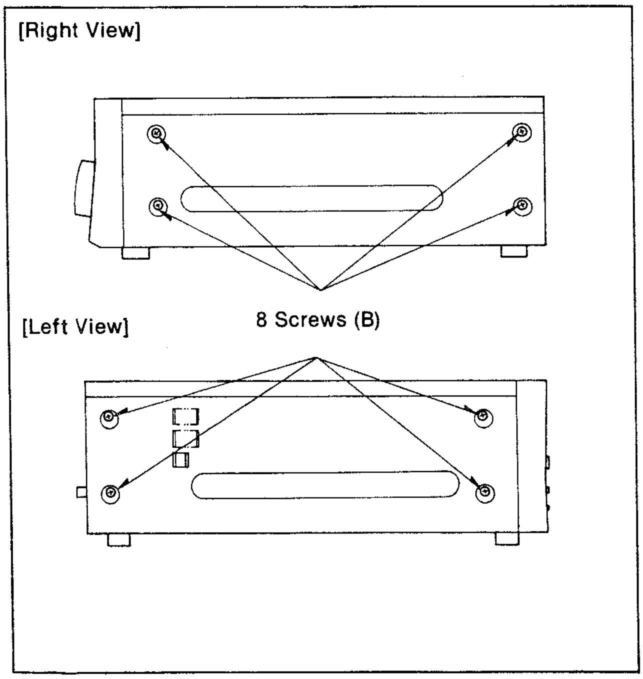

[Right View]
[Left View]
8 Screws (B)

Figure D3

2-2-3. Removal of the Bottom Plate

1. Unscrew the 9 screws (C) on the Bottom Plate (Figure D4).
2. Lift the Bottom Plate.

* Note : Do not remove the 4 rubber feet.

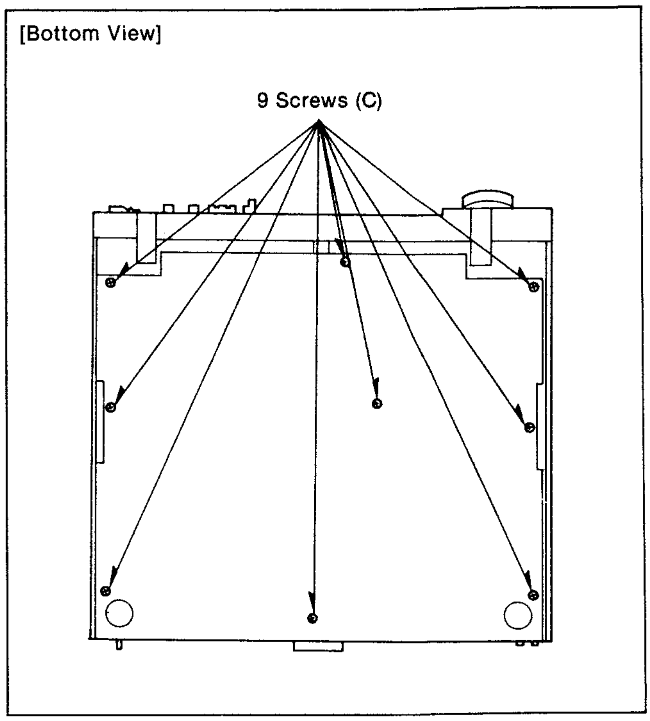

[Bottom View]
9 Screws (C)

Figure D4

2-2-4. Removal of the 34P C.B.A.

1. Unscrew the 4 screws (D) on the 34P C.B.A. (Figure D5).
2. Careful lift the 34P C.B.A.

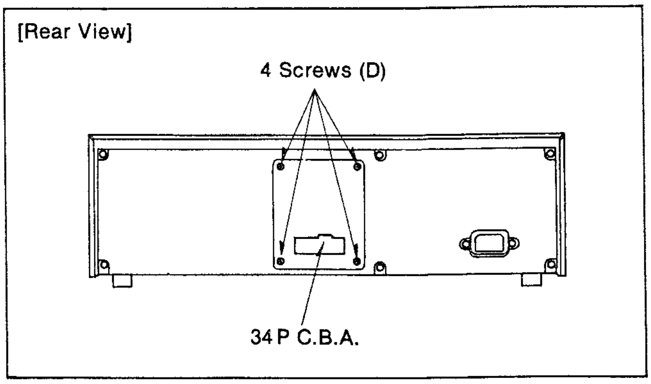

[Rear View]
4 Screws (D)
34P C.B.A.

Figure D5

2-2-5. Removal of the Rear Panel with Rear Jack C.B.A.

1. Unscrew the 8 screws (E1) and (E2) on the Rear Panel (Figure D6).
2. Lift the Rear Panel with Rear Jack C.B.A. and carefully pull the panel off the unit.

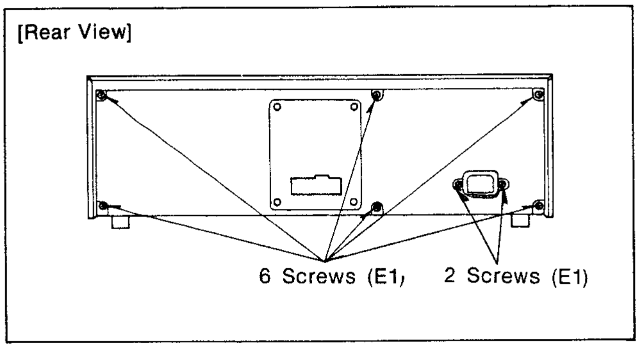

[Rear View]
6 Screws (E1,
2 Screws (E1)

Figure D6

2-2-6. Removal of the Front Panel

1. Pull out the 4 knobs (F) on the Front Panel (Figure D7).
2. Pull out the Jog/Search Dial Knob on the Front Panel (Figure D7).

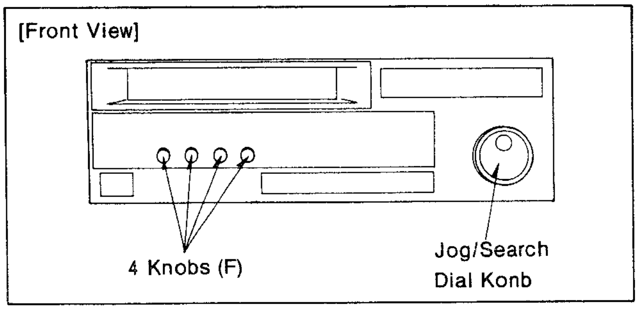

[Front View]
4 Knobs (F)
Jog/Search
Dial Konb

Figure D7

3. Unscrew the 3 screws (G) on the top of the Front Panel (Figure D8).
4. Unlock the 3 locking tabs (H) on the top of the Front Panel and the 2 locking tabs (I) on the bottom of the Front Panel (Figure D8 and Figure D9).

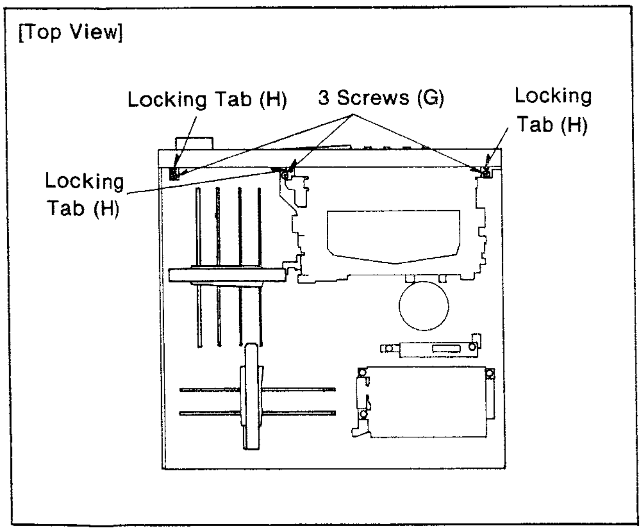

[Top View]
Locking Tab (H)
3 Screws (G)
Locking
Tab (H)
Locking
Tab (H)

Figure D8

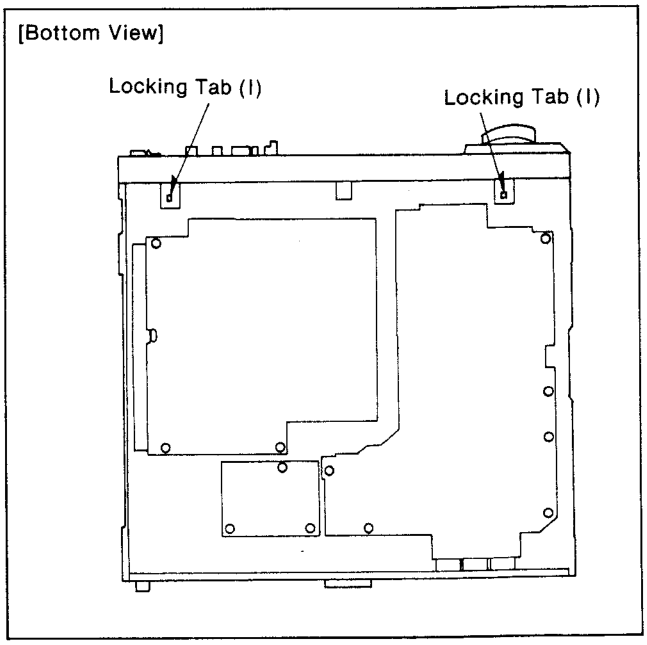

[Bottom View]
Locking Tab (I)
Locking Tab (I)

Figure D9

2-2-7. Removal of the Front C.B.A.

1. Unscrew the 4 screws (J) on the Search Dial Unit and pull out the connector P6207 (Figure D10).
2. Lift the Search Dial Unit.

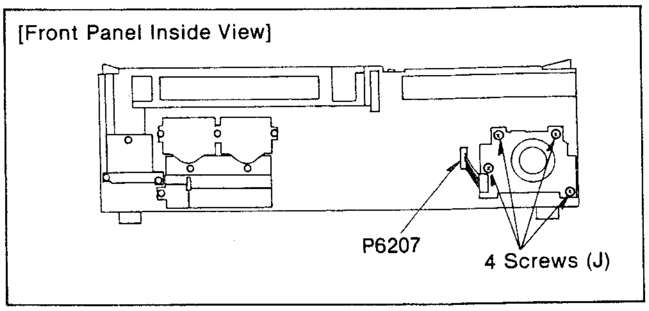

[Front Panel Inside View]
P6207
4 Screws (J)

Figure D10

3. Unscrew a screw (K) on the Front C.B.A. (Figure D11).
4. Unlock the 3 locking tabs (L) on the Front C.B.A. and carefully lift the Front C.B.A.(Figure D11).

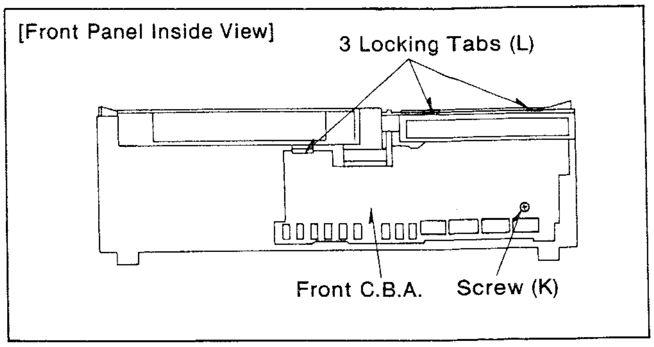

[Front Panel Inside View]
3 Locking Tabs (L)
Front C.B.A.
Screw (K)

Figure D11

2-2-8. Removal of the Audio Meter Unit

1. Unscrew the 6 screws (M) on the Audio Meter Unit (Figure D12).
2. Lift the Audio Meter Unit.

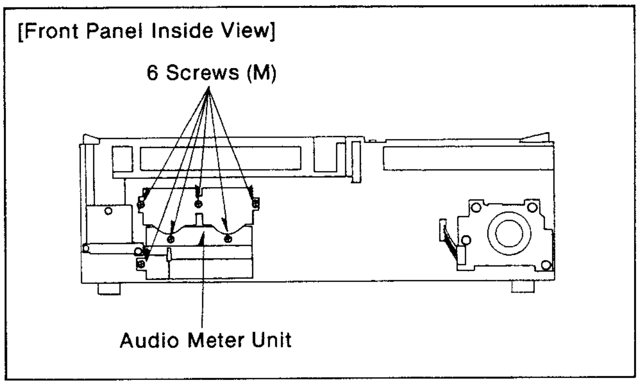

[Front Panel Inside View]
6 Screws (M)
Audio Meter Unit

Figure D12

2-2-9. Removal of the Mic Jack Unit

1. Unscrew the 3 screws (N) on the Mic Jack Unit (Figure D13).
2. Lift the Mic Jack Unit.

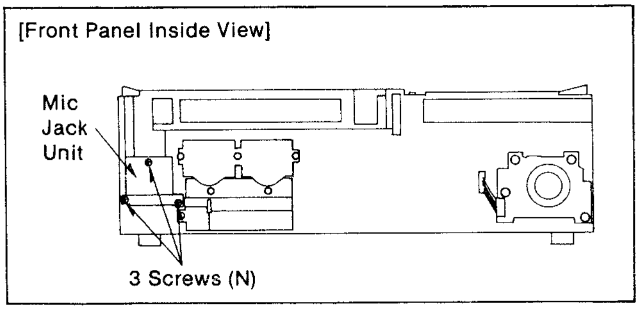

[Front Panel Inside View]
Mic Jack Unit
3 Screws (N)

Figure D13

2-2-10. Removal of the Head Amp C.B.A.

1. Unscrew the 2 screws (O) on the Head Amp C.B.A. (Figure D14).
2. Pull out the Head Amp C.B.A.

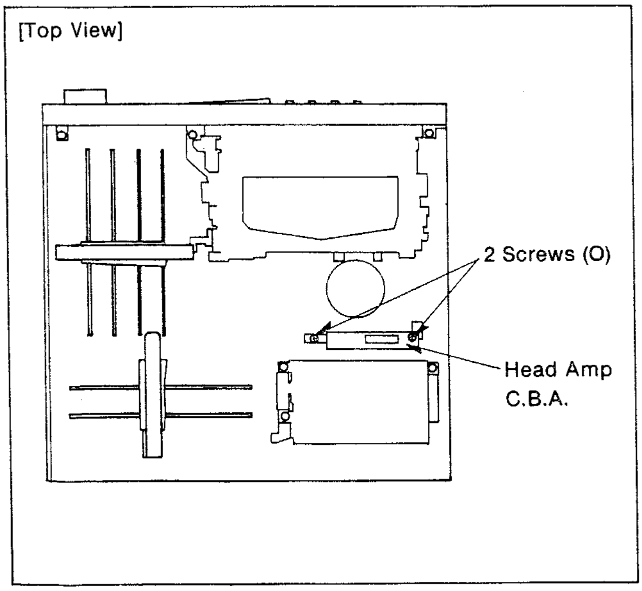

[Top View]
2 Screws (O)
Head Amp C.B.A.

Figure D14

2-2-11. Removal of the Power Unit

1. Unscrew the 3 screws (P) on the Power Unit (Figure D15).
2. Pull out the Power Unit.

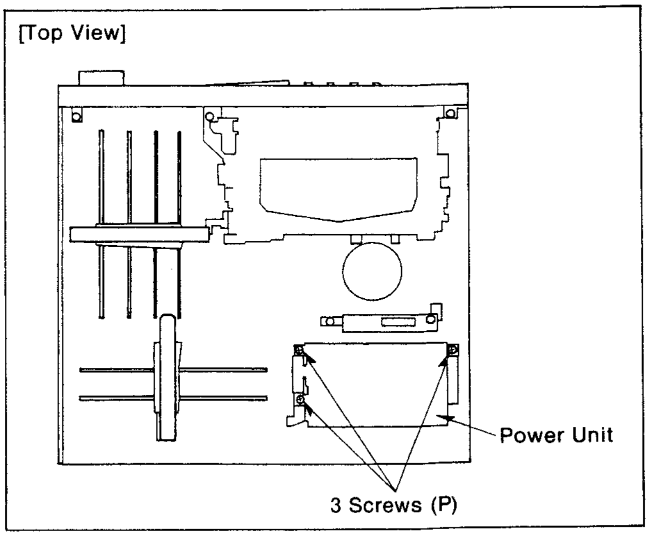

[Top View]
Power Unit
3 Screws (P)

Figure D15

2-2-12. Removal of the Power Connection C.B.A.

1. Unscrew the 2 screws (Q) on the Rear Panel (Figure D16).

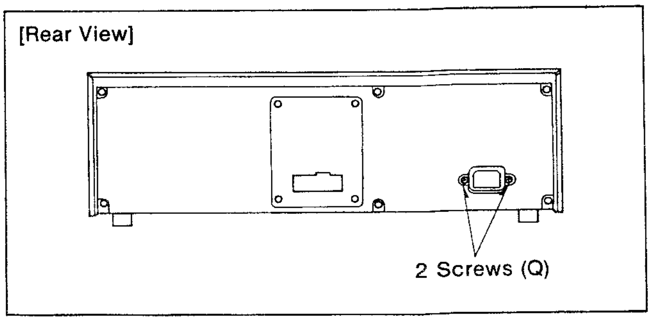

[Rear View]
2 Screws (Q)

Figure D16

2. Unscrew the 4 screws (R) on the Power Connection C.B.A. (Figure D17).
3. Carefully lift the Power Connection C.B.A.

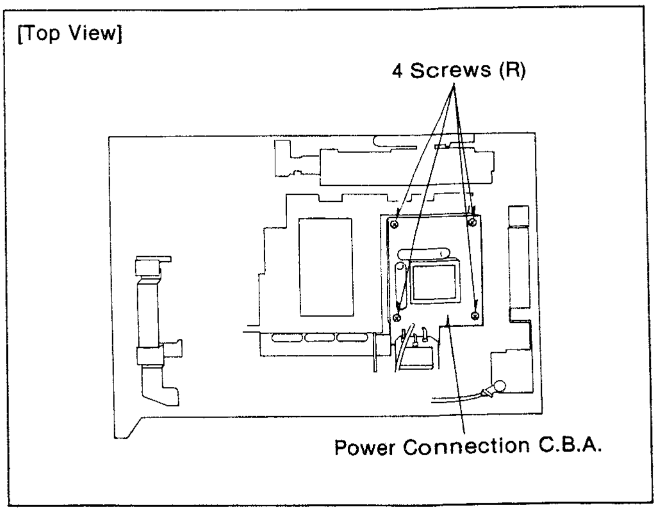

[Top View]
4 Screws (R)
Power Connection C.B.A.

Figure D17

2–2–13. Opening of the C.B.Hold Piece (A) and (B)

1. Open the C.B. Hold Piece (A) and (B) from unit by minus driver or the same (Figure D18 and Figure D19).

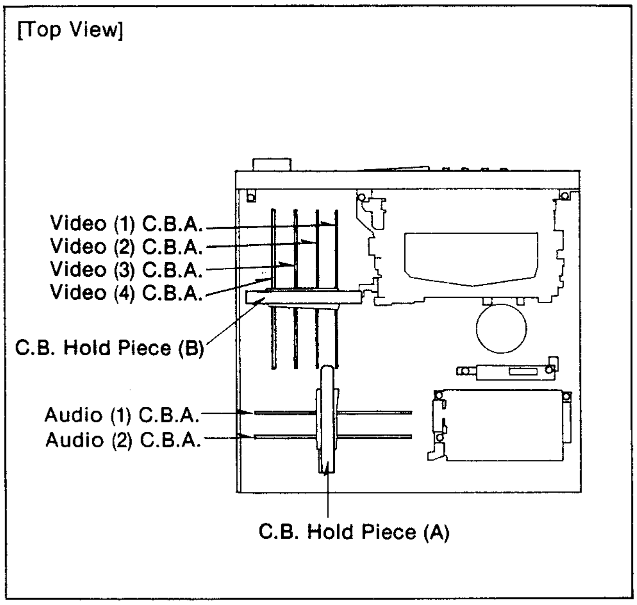

[Top View]
Video (1) C.B.A.
Video (2) C.B.A.
Video (3) C.B.A.
Video (4) C.B.A.
C.B. Hold Piece (B)
Audio (1) C.B.A.
Audio (2) C.B.A.
C.B. Hold Piece (A)

Figure D18

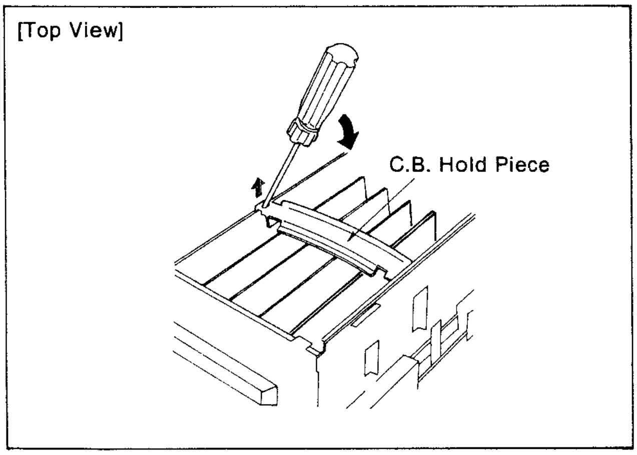

[Top View]
C.B. Hold Piece

Figure D19

2–2–14. Removal of the Video (1) C.B.A., Video (2) C.B.A., Video (3) C.B.A. and Video (4) C.B.A.

1. Open the C.B. Hold Piece (B) as shown in Figure D18.
2. Carefully pull out the Video (1) C.B.A., Video (2) C.B.A. Video (3) C.B.A. and Video (4) C.B.A. from Mother C.B.A.

2–2–15. Removal of the Audio (1) C.B.A. and Audio (2) C.B.A.

1. Open the C.B. Hold Piece (A) as shown in Figure D18.
2. Carefully pull out the Audio (1) C.B.A. and Audio (2) C.B.A. from Mother C.B.A.

2–2–16. Opening of the Servo & System Control C.B.A.

1. Unscrew the 3 screws (S) on the Servo & System Control C.B.A. and open the Servo & System Control C.B.A. by unlock a locking tab (T)(Figure D20 and Figure D21).
2. Remove the flatcables (P6001, P6002 and P6003)(Figure D21).

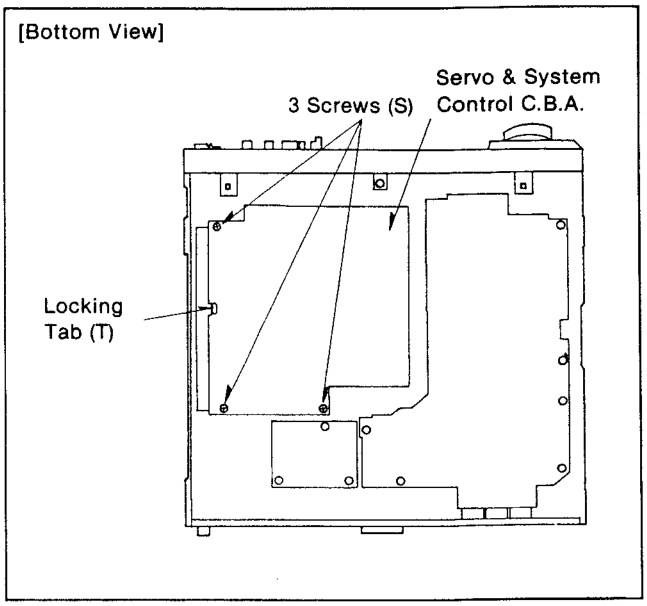

[Bottom View]
3 Screws (S)
Servo & System Control C.B.A.
Locking Tab (T)

Figure D20

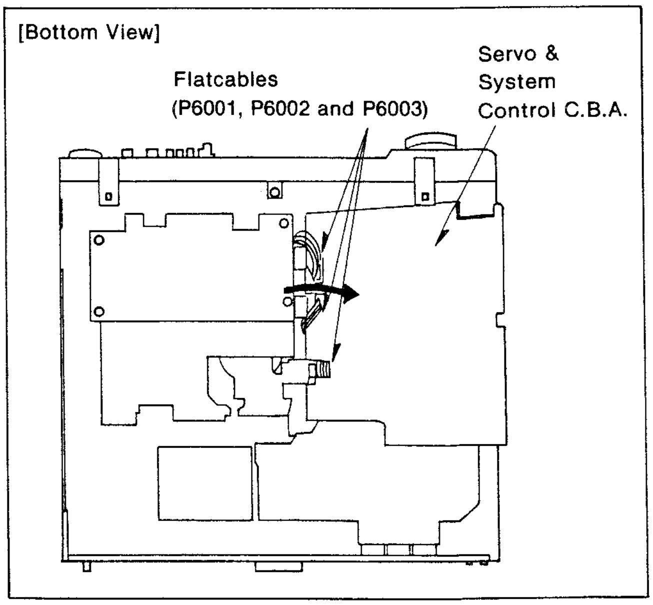

[Bottom View]
Flatcables (P6001, P6002 and P6003)
Servo & System Control C.B.A.

Figure D21

2–2–17. Removal of the Mother C.B.A.

NOTE : Before removing the Mother C.B.A., be sure to remove the Front C.B.A., Rear Jack C.B.A. Video (1) C.B.A., Video (2) C.B.A., Video (3) C.B.A., Audio (1) C.B.A. and Audio (2) C.B.A.

1. Unscrew the 8 screws (U) on the Mother C.B.A. (Figure D22).
2. Lift the Mother C.B.A.

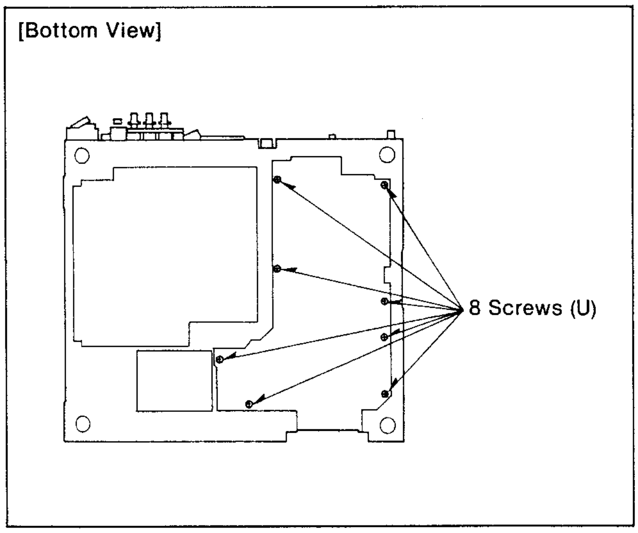

[Bottom View]
8 Screws (U)

Figure D22

2–2–18. Removal of the Power Detection C.B.A.

1. Unscrew the 3 screws (V) on the Power Detection C.B.A. (Figure D23).
2. Unlock a locking tab (W) on the Power Detection C.B.A. and lift the Power Detection C.B.A. (Figure D23).

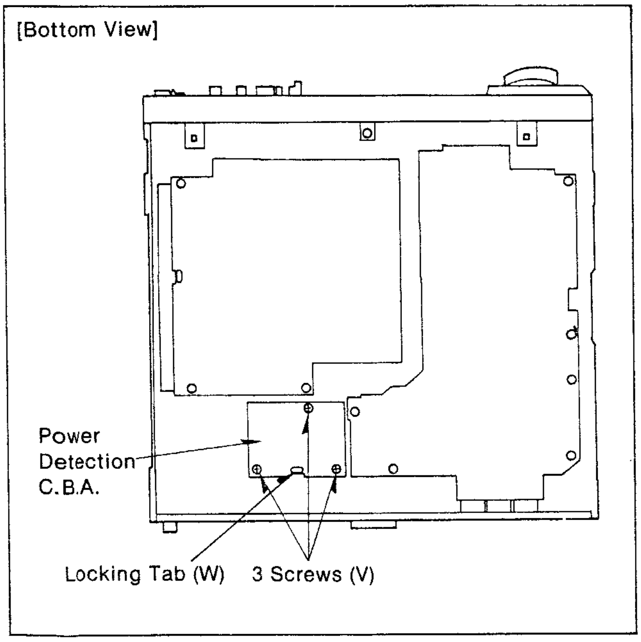

[Bottom View]
Power Detection C.B.A.
Locking Tab (W)
3 Screws (V)

Figure D23

2–2–19. Removal of the Reel Servo C.B.A.

1. Unscrew the 4 screws (X) on the Reel Servo C.B.A. (Figure D24).
2. Lift the Reel Servo C.B.A.

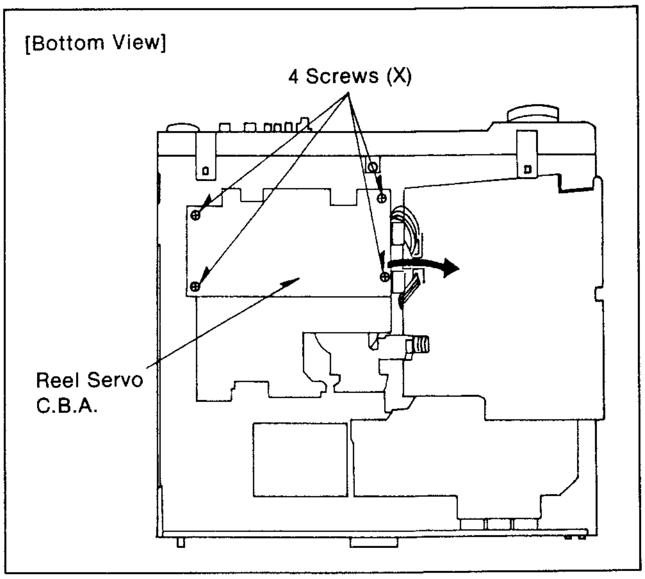

[Bottom View]
4 Screws (X)
Reel Servo C.B.A.

Figure D24

2–2–20. Removal of the Cassette Compartment Unit

1. Unscrew the 2 screws (Y–1) and a screw (Y–2)(Figure D25).
2. Disconnect 2 wires and 4 wires from P1508 on the right side of the Cassette Compartment Unit (Figure D25).
3. Remove the Top Plate.

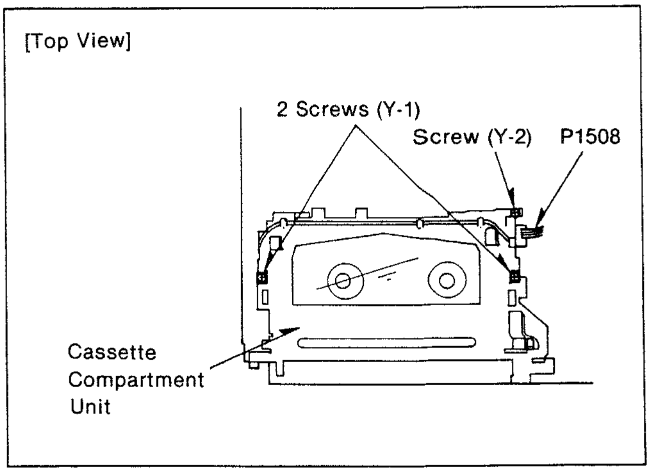

[Top View]
2 Screws (Y-1)
Screw (Y-2)
P1508
Cassette Compartment Unit

Figure D25

4. Remove a cassette holder unit.

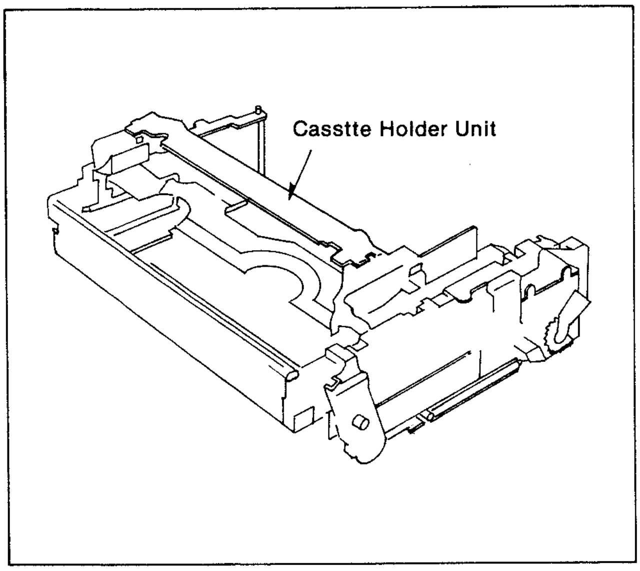

Casstte Holder Unit

Figure D26

5. Unscrew the 4 screws (Z) and remove the Cassette Compartment Unit.

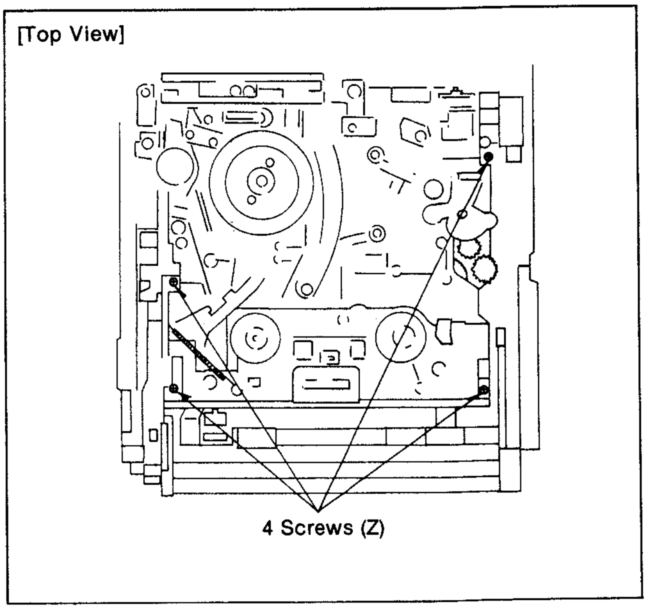
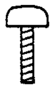
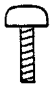
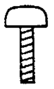
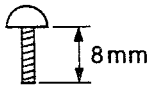
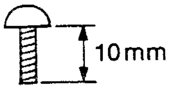
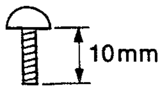
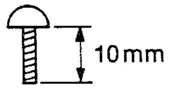
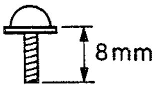
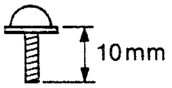
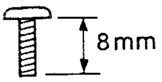
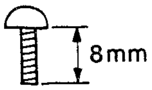
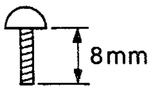

[Top View]
4 Screws (Z)

Figure D27

Note : When installing the Cassette Compartment Unit, refer to Mechanical Adjustment Procedures.

SCREWS

(A)  VHD0222	(B)  VHD0426	(C)  VHD0059	(D), (E1)  XTV3+8FFZ (BLACK)	(E2), (Q)  XTB3+10FZ (BLACK)
(G), (M), (N), (P), (S), (U), (V), (X)  XTV3+10JFR (RED)	(J), (K)  XTV4+10JFR (RED)	(O)  XTW3+8LR (RED)	(R)  XTW3+10JFR (RED)	(Y-1)  XTV26+8G
(Y-2)  XTV3+8G	(Z)  XTV26+8FR (RED)			

Section 3

MAINTENANCE

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3-1. REGULAR MAINTENANCE

The purpose of periodic maintenance is to preserve the functioning of this machine throughout it's useful life. The user or service dealer should perform these maintenance regularly to ensure that maximum utility is obtained from the machine.

The VCR is a complicated piece of equipment. It contains many belts, rollers, heads etc., which become worn, and deteriorate as time goes by, causing trouble. Dust and dirt will also impede the proper functioning of the machine. In light of this, it is very important that overall maintenance be done according to the maintenance chart to maintain the functions of the VCR, and to avoid accidental problems. This maintenance should also be performed after any repairs are done on the equipment.

The VCR used for business applications requires particular attention for several reasons. The installation conditions and applications are not always the best. long use times, to poor environmental conditions may adversely affect the life–span and performance of the machine. Regular maintenance assures that the purchaser obtains the maximum value for his expenditure. Accordingly, the necessity of regular maintenance should be fully explained at the time of sale, as well as during after–sale repairs.
Please note that the recommended maintenance schedule depends on temperature and humidity.

3-2. MAINTENANCE CHART

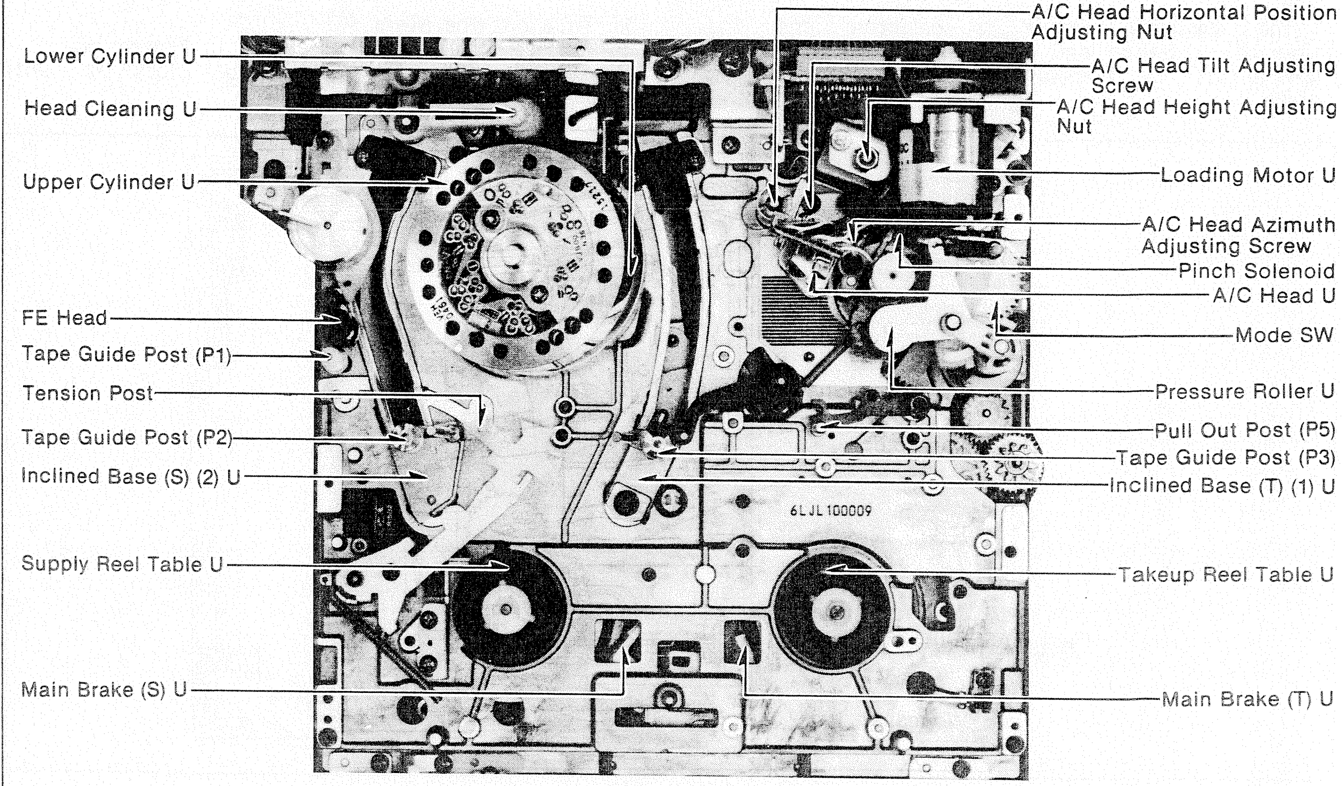
The following periodic maintenance is required to prolong the life of the machine.

Ref. No. IN P/L	Parts Name	Hour										Ref. No. IN P/L	Parts Name	Hour									
		500	1000	1500	2000	2500	3000	3500	4000	4500	5000			500	1000	1500	2000	2500	3000	3500	4000	4500	5000
—	Tape Transporters	●	●	●	●	●	●	●	●	●	●	1-7	Loading Motor U								◎		
1-19	A/C Head (1) U	●	●	●	●	●	●	●	◎	●	●	1-48	Inclind Base (S) (2) U								■		
1-56	FE Head	●	●	●	●	●	●	●	◎	●	●	1-45	Inclind Base (T) (1) U								■		
1-41	Upper Cylinder U	●	◎	●	◎	●	◎	●	◎	●	◎	1-51	Head Cleaning U		◎		◎		◎		◎		◎
1-42	Lower Cylinder U	●	●	●	●	●	◎	●	●	●	●	1-36	Mode SW								◎		
2-28	Capstan Rotor U (Shaft)	●	●	●	●	●	●	●	●	●	●	2-7	Reel Motor U								◎		
1-25	Pressure Rooler U	●	●	●	◎	●	●	●	◎	●	●	2-39	Loading Cam Gear				×				×		
2-16	Main Brake (S) U				◎				◎			2-33	Main Cam Gear								■		
2-18	Main Brake (T) U				◎				◎			2-1	Worm Shaft								■		
2-2	Loading Belt				◎				◎			2-3	Worm Wheel								■		
1-13	Phinch Solenoid										◎												

***NOTE:**

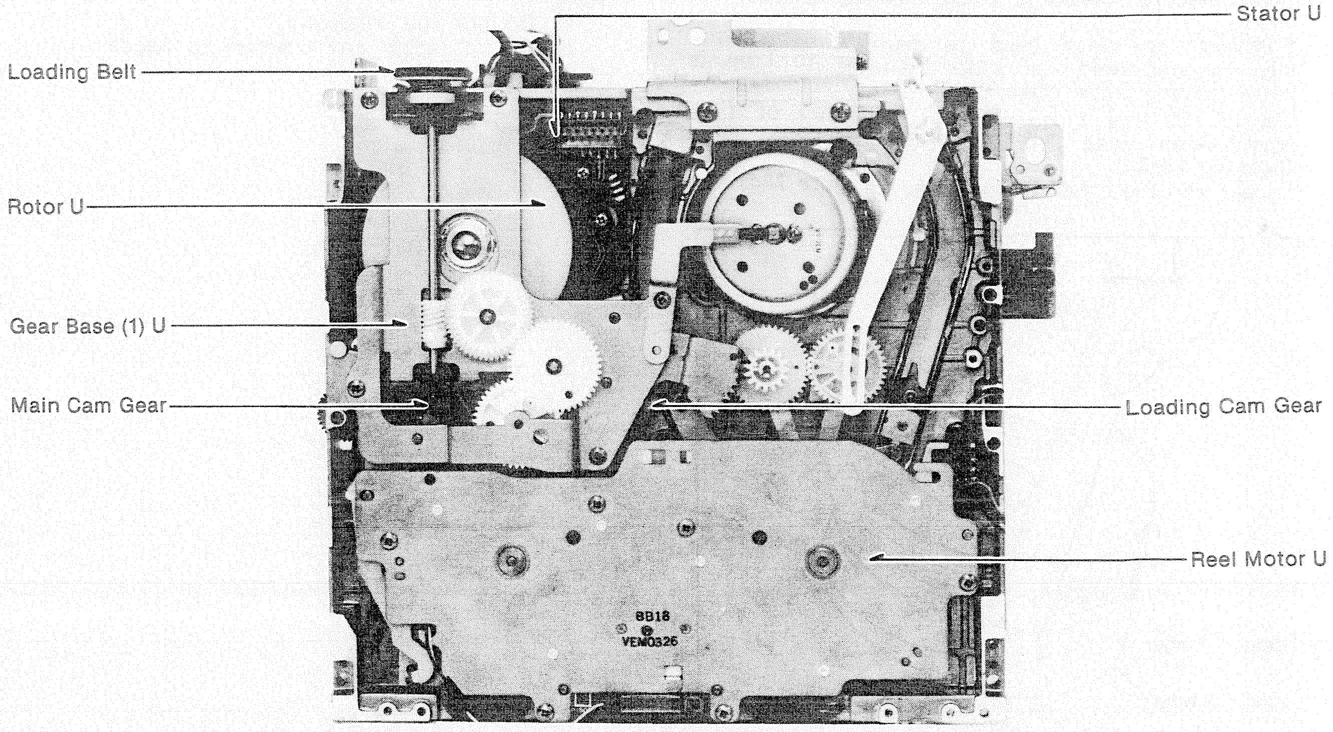
Symbol	Maintenance	Requirement	Remark
●	Cleaning	Ethyl-alcohol or Cleaning Liquid (Purchase locally)	Wipe dirt from the parts using soft cloth impregnated with Ethyl-Alcohol. Note: When cleaning rubber parts, avoid using excessive alcohol since it may accelerate deterioration of these parts. After cleaning with alcohol, wipe the alcohol quickly and thoroughly.
◎	Replacement	———	———
■	Greasing	Molytone Grease (MOR265)	Wipe the old grease and apply new grease.
×	Greasing	S.C.R. Grease (VFK0680)	Wipe the old grease and apply new grease.

3-3. PARTS LOCATION



A/C Head Horizontal Position Adjusting Nut
Lower Cylinder U
A/C Head Tilt Adjusting Screw
Head Cleaning U
A/C Head Height Adjusting Nut
Upper Cylinder U
Loading Motor U
A/C Head Azimuth Adjusting Screw
Pinch Solenoid
A/C Head U
FE Head
Mode SW
Tape Guide Post (P1)
Tension Post
Pressure Roller U
Tape Guide Post (P2)
Pull Out Post (P5)
Tape Guide Post (P3)
Inclined Base (S) (2) U
Inclined Base (T) (1) U
6LJL100009
Supply Reel Table U
Takeup Reel Table U
Main Brake (S) U
Main Brake (T) U

Figure M1 Top View



Stator U
Loading Belt
Rotor U
Gear Base (1) U
Main Cam Gear
Loading Cam Gear
Reel Motor U
BB18
VEM0326

Figure M2 Bottom View

3-4. MAINTENANCE PROCEDURES

3-4-1. HOW TO EJECT MANUALY

If the electrical circuit is defective and the action of unloading and front unloading don't work properly, it is possible to eject manually as follows.

1. Take out the Main AC.
2. Release the direction as shown in Figure M3.
3. Rotate the Wormshaft to clockwise until cassette is ejected.

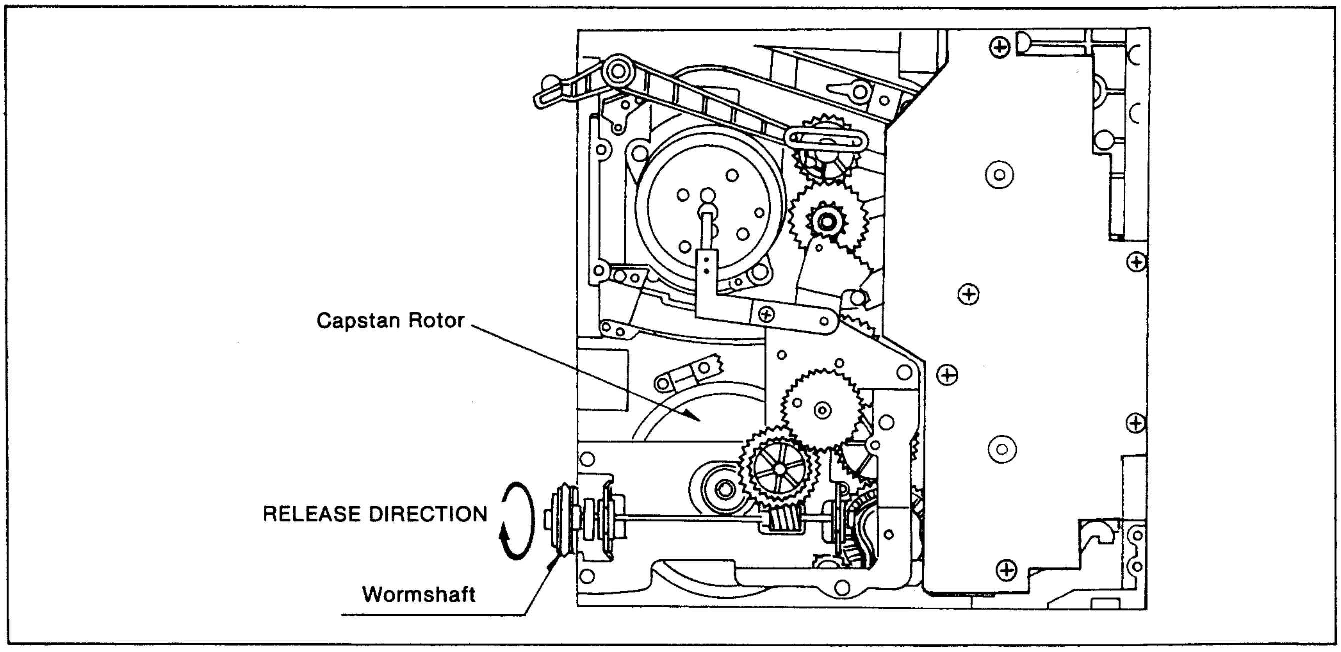

Capstan Rotor
RELEASE DIRECTION
Wormshaft

Figure M3

3-4-2. CYLINDER MAINTENANCE PROCEDURES

A. Procedures for Cleaning of the Cylinder Unit

1. Position the video head to permit access for cleaning and hold the upper cylinder to keep it from turning while cleaning.
2. Gently rub the video head in direction of tape travel with Head Cleaning Stick moistened with Cleaning Liquid.
3. Repeat for the other video heads. (Figure M4)

*Notes:
1. Do not rub vertically.
2. Do not apply any pressure to heads.

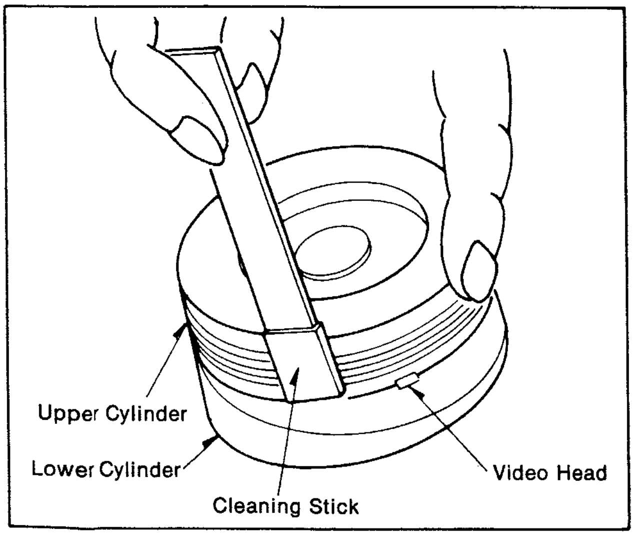

Upper Cylinder
Lower Cylinder
Cleaning Stick
Video Head

Figure M4

B. Replacement of the Upper Cylinder Unit

1. First remove two screws as shown in Figure M5. Then unsolder 16 (Figure M6) of the soldered portions indicated by arrows on the Upper Cylinder, and finally remove the Upper Cylinder.

*Note: Soldered portion can be easily removed by using solder sucking wire, etc.

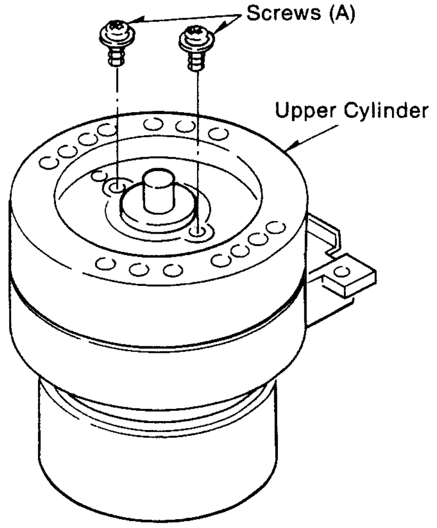

Screws (A)
Upper Cylinder

Figure M5

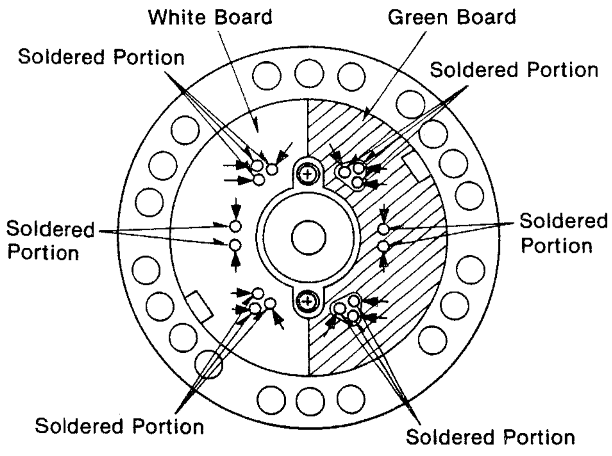

White Board
Green Board
Soldered Portion
Soldered Portion
Soldered Portion
Soldered Portion
Soldered Portion
Soldered Portion

Figure M6

2. The Upper Cylinder unit can be reinstalled by reversing the removal procedure.
However, when Upper Cylinder is installed, be extremely carefully so that white portion of P.C. board of Upper Cylinder correctly matches the white portion of bottom cylinder as shown in Figure M7.

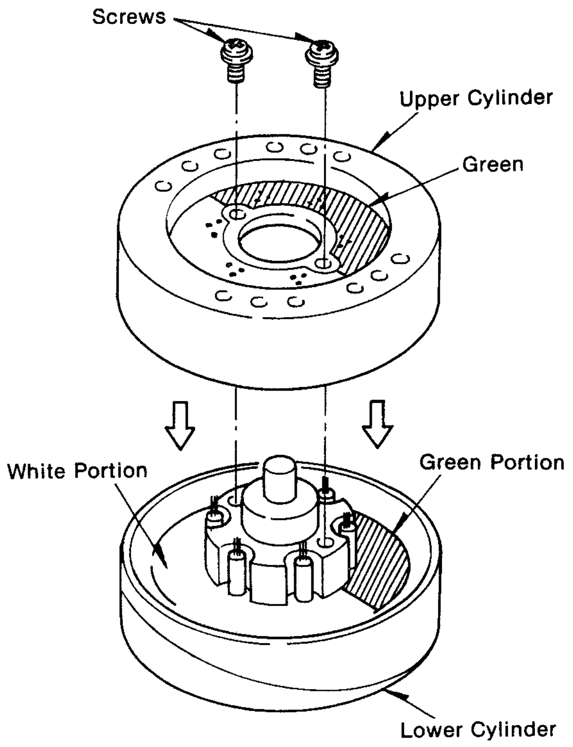

Screws
Upper Cylinder
Green
White Portion
Green Portion
Lower Cylinder

Figure M7

*Note: If the Upper Cylinder Unit is reversal installed, no color will appear when playing back pre-recorded tapes.

C. Replacement of the Lower Cylinder .Unit

1. Disconnect 2 connectors.(Figure M8)

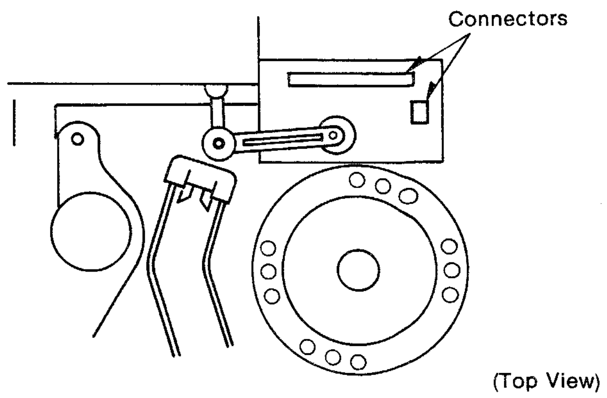

Connectors
(Top View)

Figure 2–8

2. Remove the Cleaning Rod from bottom side.
3. Disconnect a connector (D).
4. Unscrew 3 screws (C). Since there is very little clearance between DD Cylinder (Lower Cylinder) Unit and Chassis, remove the Cylinder gently and carefully. (Figure M9).

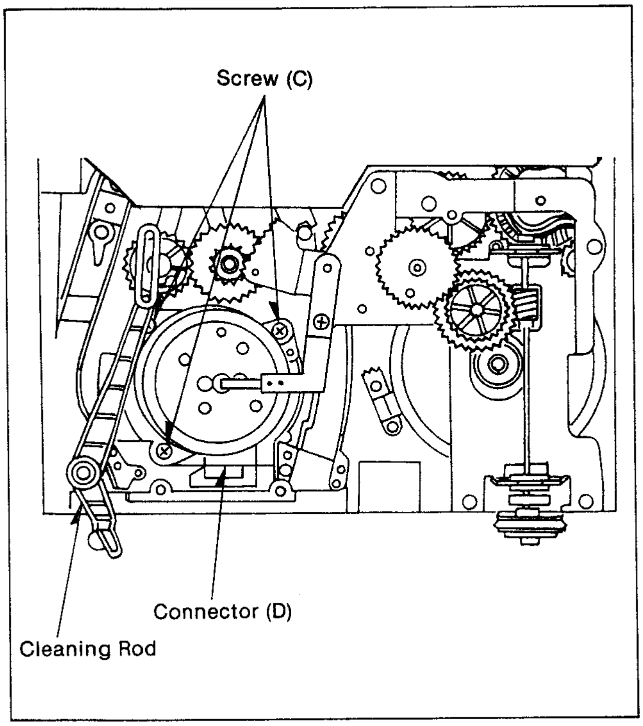

Screw (C)
Connector (D)
Cleaning Rod

Figure M9

5. Reinstall the new DD Cylinder (Lower Cylinder) Unit in the chassis, tighten the 3 screws (C). Then connect a connectors and reinstall the Cleaning Rod.
6. Re-install the Head Amp C.B.A.

D. Adjustment After Re-Installing

Figure M10 shows the order of steps for adjusting the mechanical and electrical.

These adjustments should be performed after completion of reinstalling the Upper Cylinder or Lower Cylinder Unit.

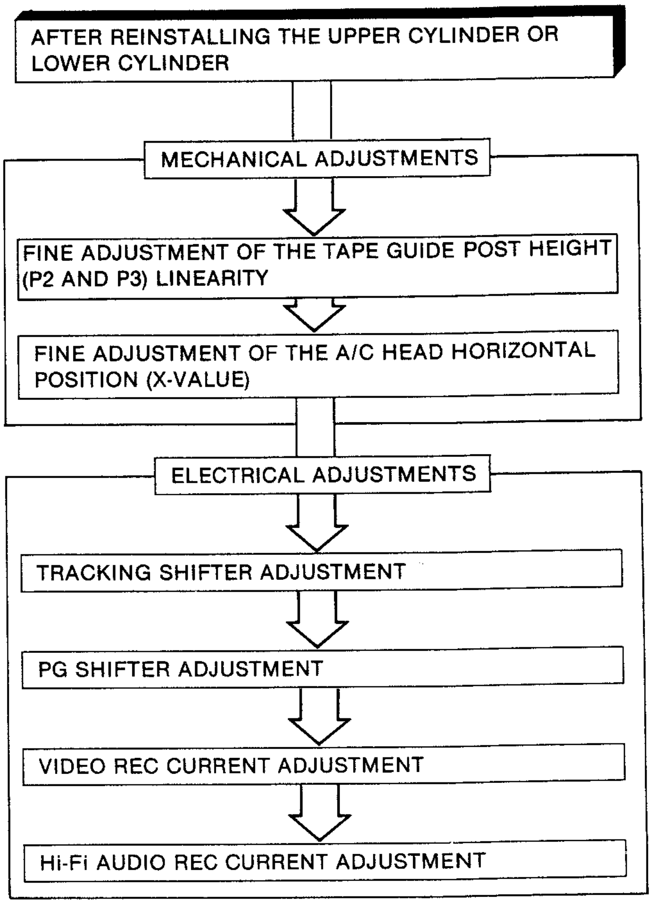

AFTER REINSTALLING THE UPPER CYLINDER OR LOWER CYLINDER
MECHANICAL ADJUSTMENTS
FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT (P2 AND P3) LINEARITY
FINE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)
ELECTRICAL ADJUSTMENTS
TRACKING SHIFTER ADJUSTMENT
PG SHIFTER ADJUSTMENT
VIDEO REC CURRENT ADJUSTMENT
Hi-Fi AUDIO REC CURRENT ADJUSTMENT

Figure M10

3-4-3. A/C HEAD MAINTENANCE PROCEDURES

A. Replacement of the A/C Head (1) Unit

1. Disconnect a connector (H). (Figure M11)
2. Unscrew 3 screws (E)(F)(G) with a spring and then remove the A/C Head (1) Unit (Figure M11).

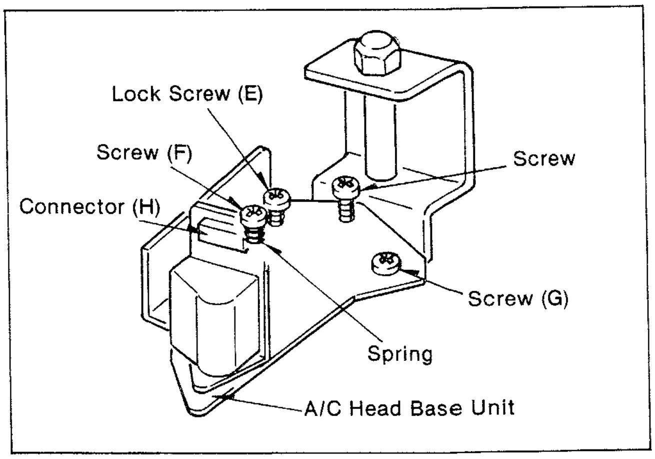

Lock Screw (E)
Screw (F)
Screw
Connector (H)
Screw (G)
Spring
A/C Head Base Unit

Figure M11

3. The A/C Head (1) Unit can be reinstalled by reversing the removal procedure.

B. Adjustment After Re–installing

Figure M12 shows the order of steps for adjusting the mechanical and electrical. These adjustments should be performed after completion of reinstalling the A/C Head (1) Unit.

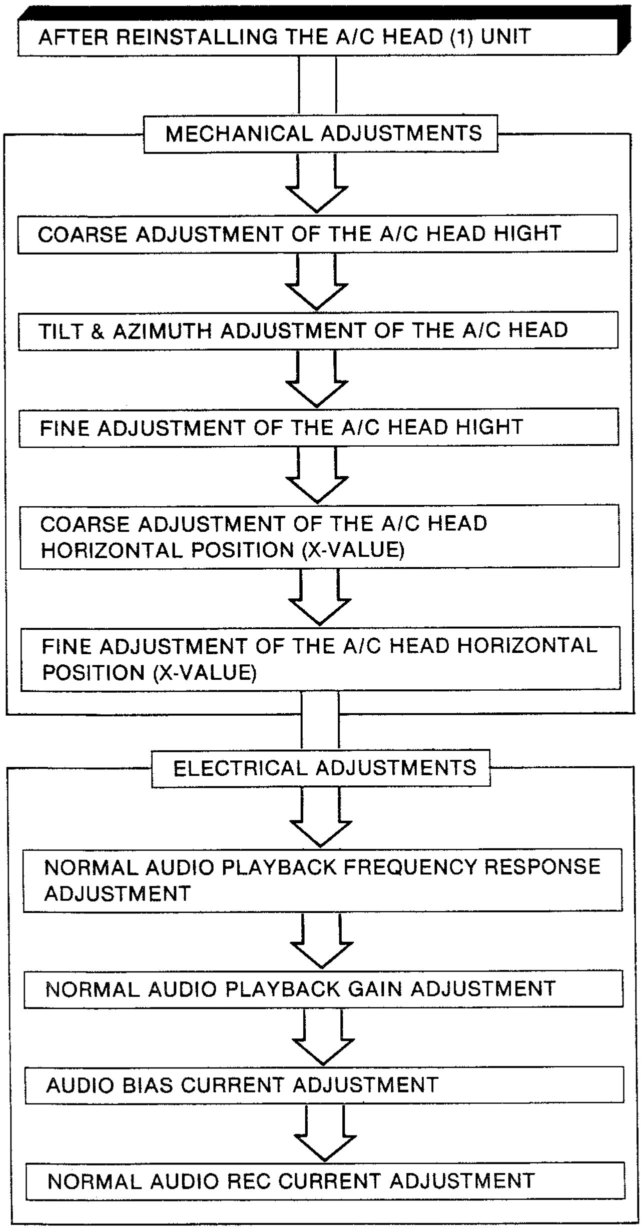

AFTER REINSTALLING THE A/C HEAD (1) UNIT
MECHANICAL ADJUSTMENTS
COARSE ADJUSTMENT OF THE A/C HEAD HIGHT
TILT & AZIMUTH ADJUSTMENT OF THE A/C HEAD
FINE ADJUSTMENT OF THE A/C HEAD HIGHT
COARSE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)
FINE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)
ELECTRICAL ADJUSTMENTS
NORMAL AUDIO PLAYBACK FREQUENCY RESPONSE ADJUSTMENT
NORMAL AUDIO PLAYBACK GAIN ADJUSTMENT
AUDIO BIAS CURRENT ADJUSTMENT
NORMAL AUDIO REC CURRENT ADJUSTMENT

Figure M12

3-4-4. FULL ERASE HEAD MAINTENANCE PROCEDURE

A. Replacement of the Full Erase Head

1. Disconnect a connector (J).
2. Unscrew a screw (K) and remove the Full Erase Head.

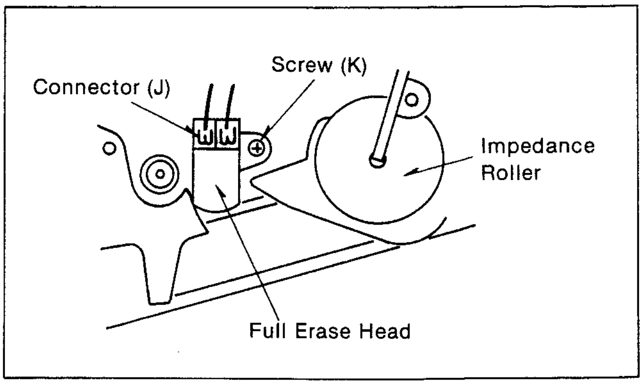

Connector (J)
Screw (K)
Impedance Roller
Full Erase Head

Figure M13

3. The new Full Erase Head can be reinstalled by reversing the removal procedure.

3-4-5. PRESSURE ROLLER MAINTENANCE PROCEDURES

A. Replacement of the Pressure Roller Unit

1. Place the deck in STOP or EJECT mode.
2. Remove the Pinch Can Cap.
3. Remove the Pressure Roller Unit.

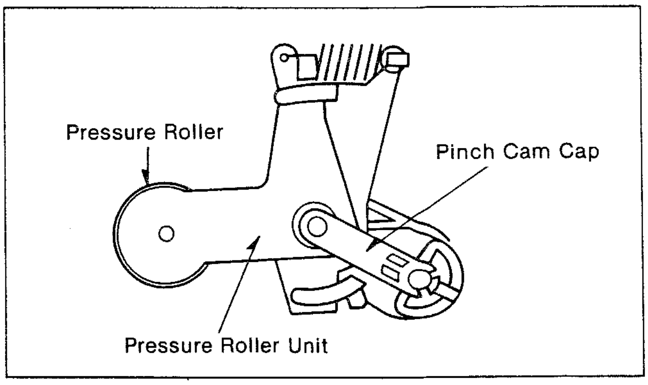

Pressure Roller
Pinch Cam Cap
Pressure Roller Unit

Figure M14

4. The new Pressure Roller Unit can be re–installed by reversing the removal procedure.

3-4-6. REEL MOTOR UNIT MAINTENANCE PROCEDURES

A. Replacement of the Reel Unit

1. Remove 6 screws (L) and carefully lift the DD Reel Unit.
2. Disconnect a connector.

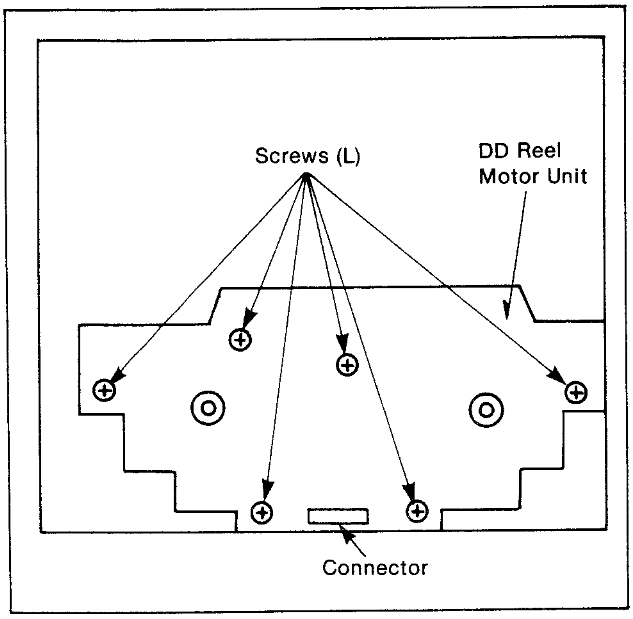

Screws (L)
DD Reel Motor Unit
Connector

Figure M15

3. The Reel Motor Unit can be re-installed by reversing the removal procedure.

*Note: When assembling the DD Reel Motor Unit, slide the Main Rod to far left side by rotating a Center Gear.

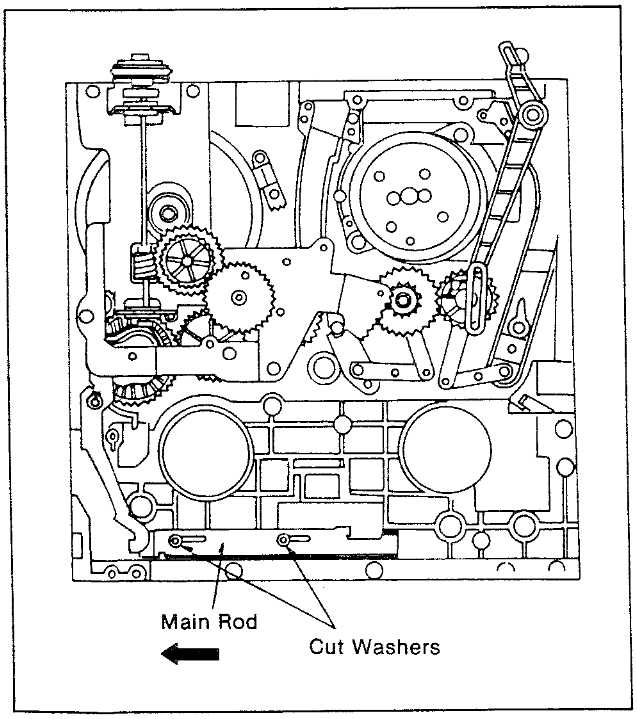

Main Rod
Cut Washers

Figure M16

3-4-7. MAIN BRAKE (S),(T) UNIT MAINTENANCE PROCEDURES

A. Replacement of the Main Brake (S),(T) Unit

1. Remove the Reel Unit. (Refer to Reel Motor Maintenance Procedures.)
2. Remove a Retaining Ring.
3. Remove the Main Brake (S),(T) with a spring.

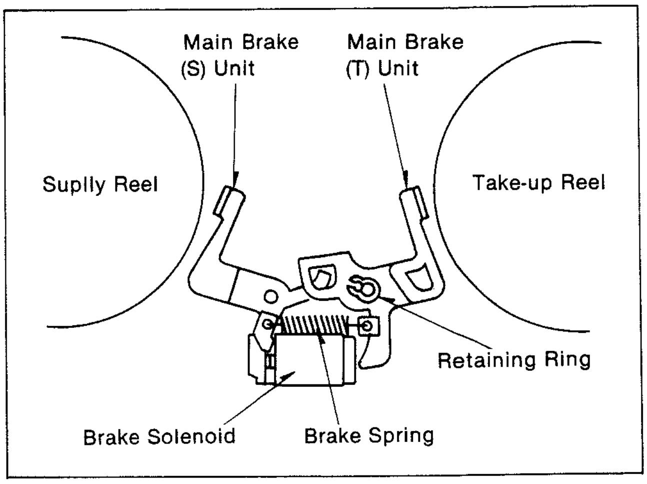

Main Brake (S) Unit
Main Brake (T) Unit
Suplly Reel
Take-up Reel
Retaining Ring
Brake Solenoid
Brake Spring

Figure M17

4. The new Main Brake (S),(T) Unit can be reinstalled by reversing the removal procedure.

*Note: When assembling the DD Reel Motor Unit, slide the Main Rod to far left side by rotating a Center Gear. (Figure M16)

3-4-8. LOADING MOTOR UNIT MAINTENANCE PROCEDURES

A. Replacement of the Loading Motor Unit

1. Remove the Loading Belt.
2. Remove the Loading Motor Pulley.
3. Disconnect a connector.
4. Unscrew 2 screws (M) and remove the Loading Motor Unit.

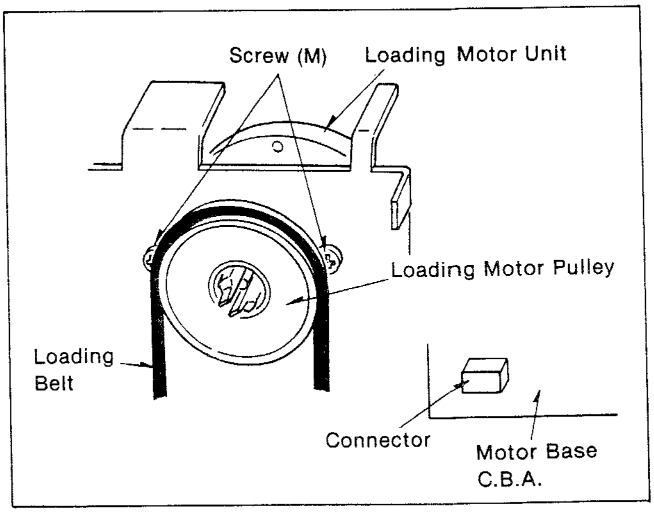

Screw (M)
Loading Motor Unit
Loading Motor Pulley
Loading Belt
Connector
Motor Base C.B.A.

Figure M18

5. The Loading Motor Unit can be reinstalled by reversing the removal procedure.

3-4-9. HEAD CLEANING PAD UNIT MAINTENANCE PROCEDURES

A. Replacement of the Head Cleaning Pad

1. Remove a Cut Washer (N) and the Head Cleaning Pad Unit.
2. The Head Cleaning Pad Unit can be reinstalled by reversing the removal procedure.

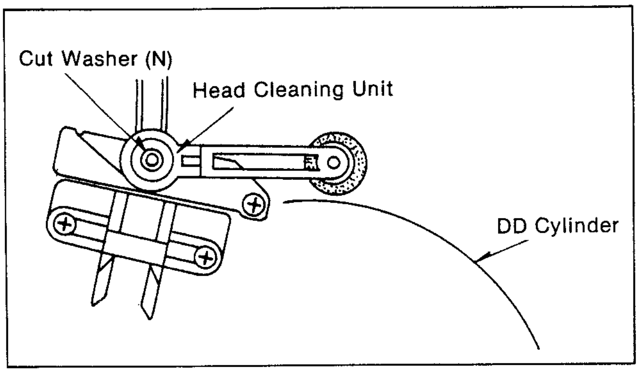

Cut Washer (N)
Head Cleaning Unit
DD Cylinder

Figure M19

3-4-10. MODE SWITCH MAINTENANCE PROCEDURES

A. Replacement of the Mode Switch

1. Place the deck in the STOP mode.
2. Remove the Cassette Compartment Unit. (Refer to Disassembly Procedures)
3. Remove the Pinch Cam Cap and Pressure Roller Unit.
4. Remove the Pinch Cam.

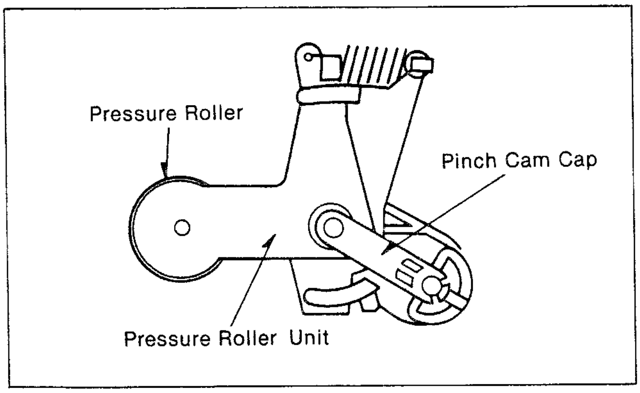

Pressure Roller
Pinch Cam Cap
Pressure Roller Unit

Figure M20

5. Unscrew 2 screws (P) and remove the Loading Motor Base.
6. Unscrew a screw (Q) and unsolder 5 of soldered portions.
7. Finally remove the Mode Switch.

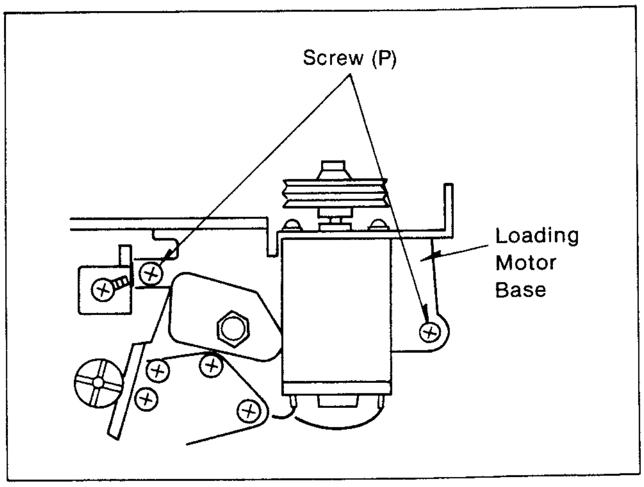

Screw (P)
Loading Motor Base

Figure M21

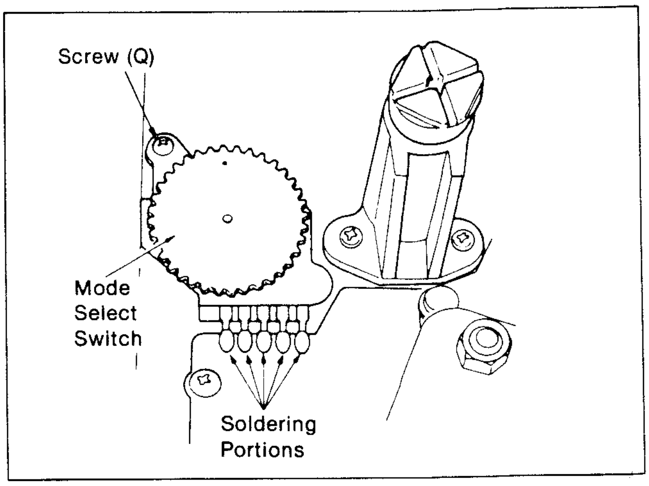

Screw (Q)
Mode Select Switch
Soldering Portions

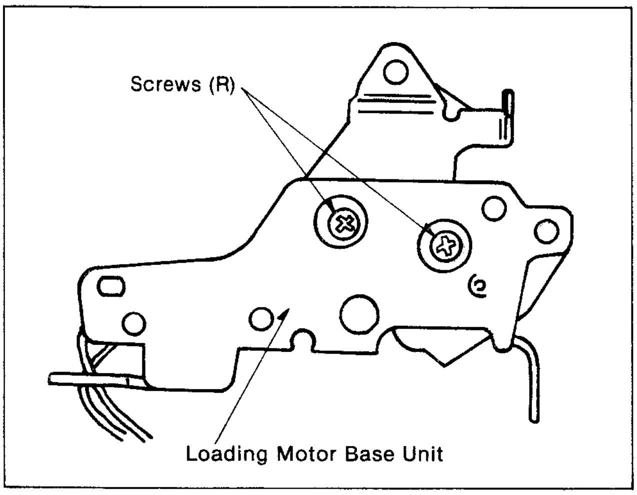
Figure M22

8. Install a Mode Switch and tighten screw (Q), then solder 5 soldering portions.
9. Install the Pinch Cam and Pressure Roller Unit. (Refer to " Assembly Procedures of Pinch Cam & Pressure Roller Unit.")
10. Install the Loading Motor Base and tighten screw (P).
11. Install the Cassette Compartment. (Refer to Reinstallation of Cassette Compartment.)

3-4-11. PINCH SOLRNOID MAINTENANCE PROCEDURES

A. Replacement of the Pinch Solenoid

1. Unscrew 2 screws (P) and remove the Loading Motor Base. (Figure M21)
2. Disconnect a connector (red) on the Motor Base C.B.A.
3. Unscrew 2 screws(R)(Figure M23) and remove the Pinch Solenoid.
4. Install a Pinch Solenoid and tighten 2 screws (P).
5. Install the Loading Motor Base and tighten 2 screws (P).(Figure M21)



B. Adjustment After Re-installing

Pressure Adjustment of the Pinch Roller (Refer to Mechanical Adjustment Procedures) should be performed after completion of reinstalling the Pinch Solenoid.

Section 4

MECHANICAL ADJUSTMENTS

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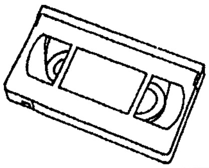
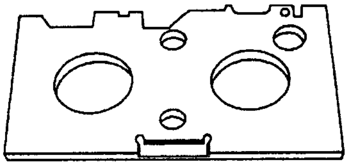
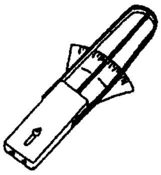
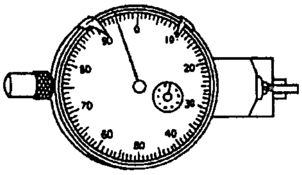
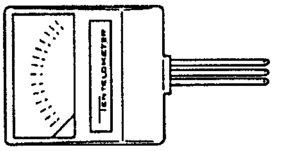
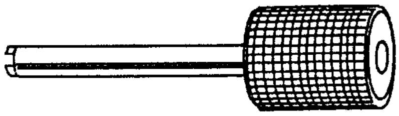
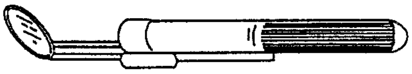
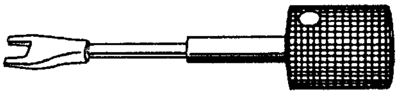
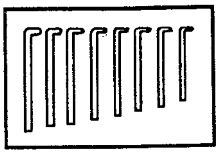
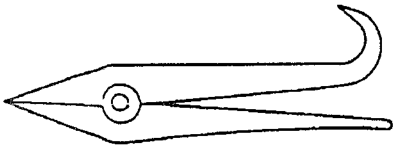
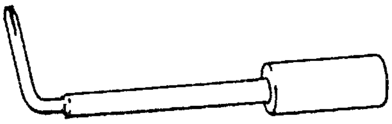
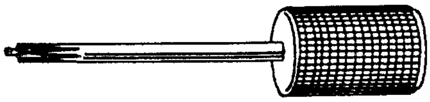
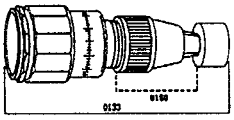
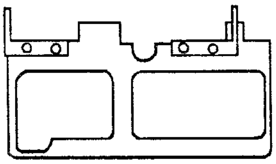
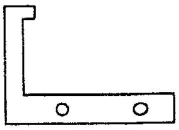
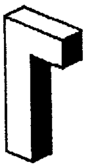
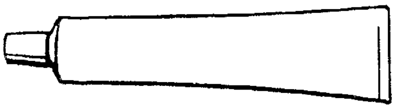
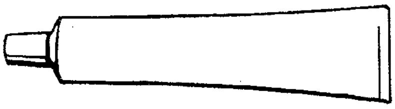
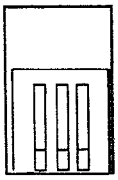
4-1. SERVICING FIXTURES AND TOOLS

The specified servicing fixture must be used to conduct adjustment.
The following fixtures, tools and measuring equipments are required to conduct complete Mechanical Adjustments.

VFM8180HADH ; PAL VHS Alignment Tape VFM8080HQFP ; NTSC VHS Alignment Tape 	VFK0191 ; Post Adjustment Plate 	VFK66 ; Fan Type Tension Gauge 
VFK0190 ; Reel Table Height Fixture 	VFK0132 ; Back Tension Meter (Tentelometer, Made in U.S.A.) 	VFK0329 ; Post Adj.Screwdriver 
VFK0343 ; Check Light 	VFK0328 ; H-Position Adj. Screwdriver 	VFK0326 ; Hex. Wrench Set (0.7, 0.9, 1.2, 1.5, 1.6, 2.0, 2.4, 3.0mm) 
VFK0335 ; Retaining Ring Remover 	VFK0269 ; L Type Screwdriver 	VFK0330 ; Fine Adjustment Screwdriver (3mm ϕ) 
VFK0133 ; Dial Torque Gauge VFK0180 ; Plastic Clamper Only VFK0134 ; Adaptor for VFK0133 	VFK0236 ; Tension Post Adj. Plate 	VFK0578 ; Tension Sensor Adj. Fixture 
VFK0344 ; Post Height Adj. Fixture 	High Quality Machine Oil (Reel Shaft, Capstan Saft etc.) <<PURCHASE LOCALLY>>	Cleaning Liquid (Alchol) (Tape Transport Rubber Parts etc.) <<PURCHASE LOCALLY>>
MOR265 ; Morlytone Grease (Black) (for metal part) 	VFK0680 ; S.C.R. Grease (White) (for plastic part) 	VFK27 ; Head Cleaning Stick 

4-2. TAPE INTERCHANGEABILITY ADJUSTMENT PROCEDURES

4-2-1. ADJUSTMENT FLOW CHART

This flow chart describes the order of steps for adjusting the tape guide posts and A/C head in order to gain access to the items needing servicing. (Figures M1 and M2)

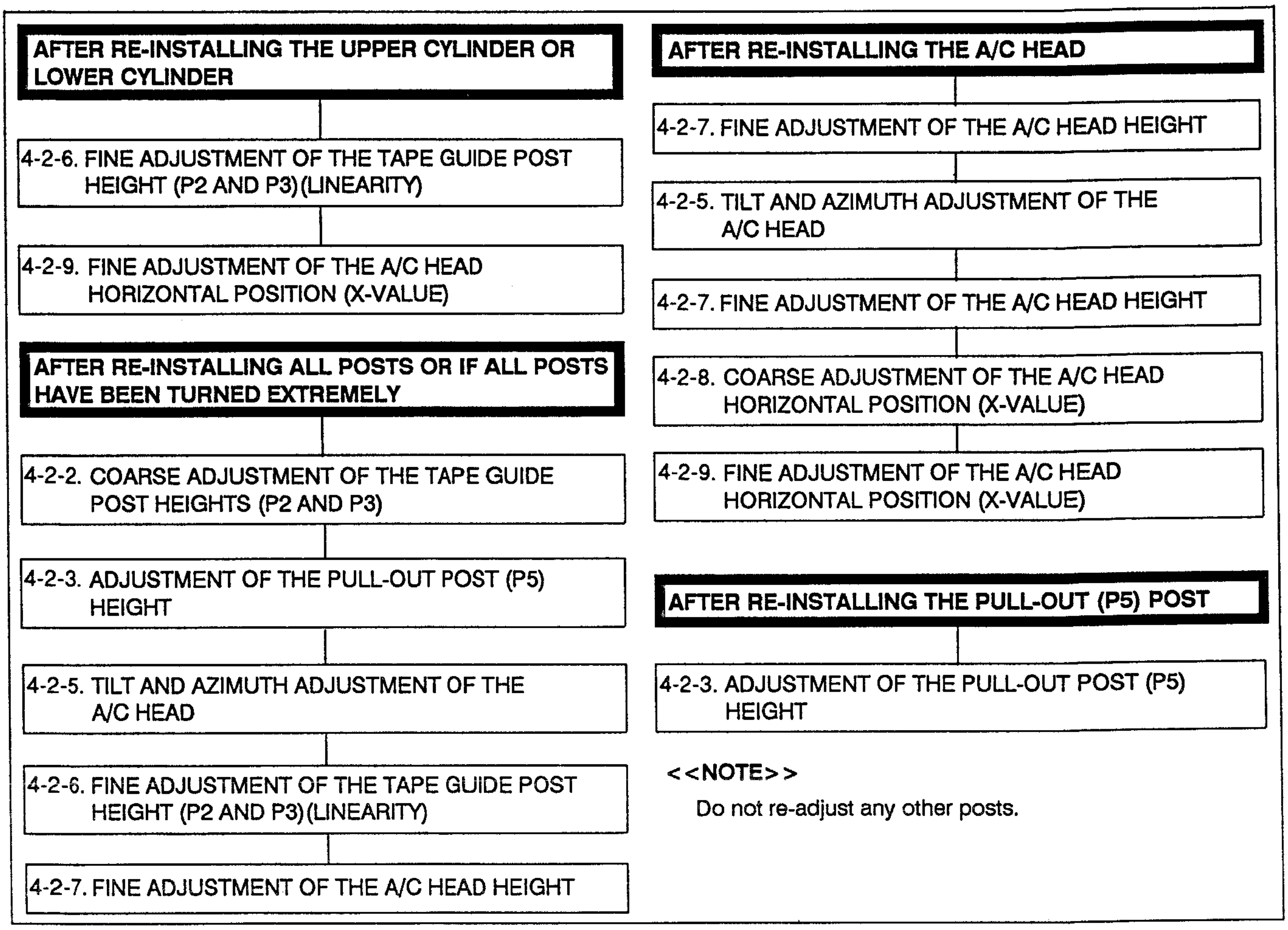

AFTER RE-INSTALLING THE UPPER CYLINDER OR LOWER CYLINDER
4-2-6. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT (P2 AND P3)(LINEARITY)
4-2-9. FINE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)
AFTER RE-INSTALLING ALL POSTS OR IF ALL POSTS HAVE BEEN TURNED EXTREMELY
4-2-2. COARSE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHTS (P2 AND P3)
4-2-3. ADJUSTMENT OF THE PULL-OUT POST (P5) HEIGHT
4-2-5. TILT AND AZIMUTH ADJUSTMENT OF THE A/C HEAD
4-2-6. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT (P2 AND P3)(LINEARITY)
4-2-7. FINE ADJUSTMENT OF THE A/C HEAD HEIGHT
AFTER RE-INSTALLING THE A/C HEAD
4-2-7. FINE ADJUSTMENT OF THE A/C HEAD HEIGHT
4-2-5. TILT AND AZIMUTH ADJUSTMENT OF THE A/C HEAD
4-2-7. FINE ADJUSTMENT OF THE A/C HEAD HEIGHT
4-2-8. COARSE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)
4-2-9. FINE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)
AFTER RE-INSTALLING THE PULL-OUT (P5) POST
4-2-3. ADJUSTMENT OF THE PULL-OUT POST (P5) HEIGHT
<<NOTE>>
Do not re-adjust any other posts.

Figure M1

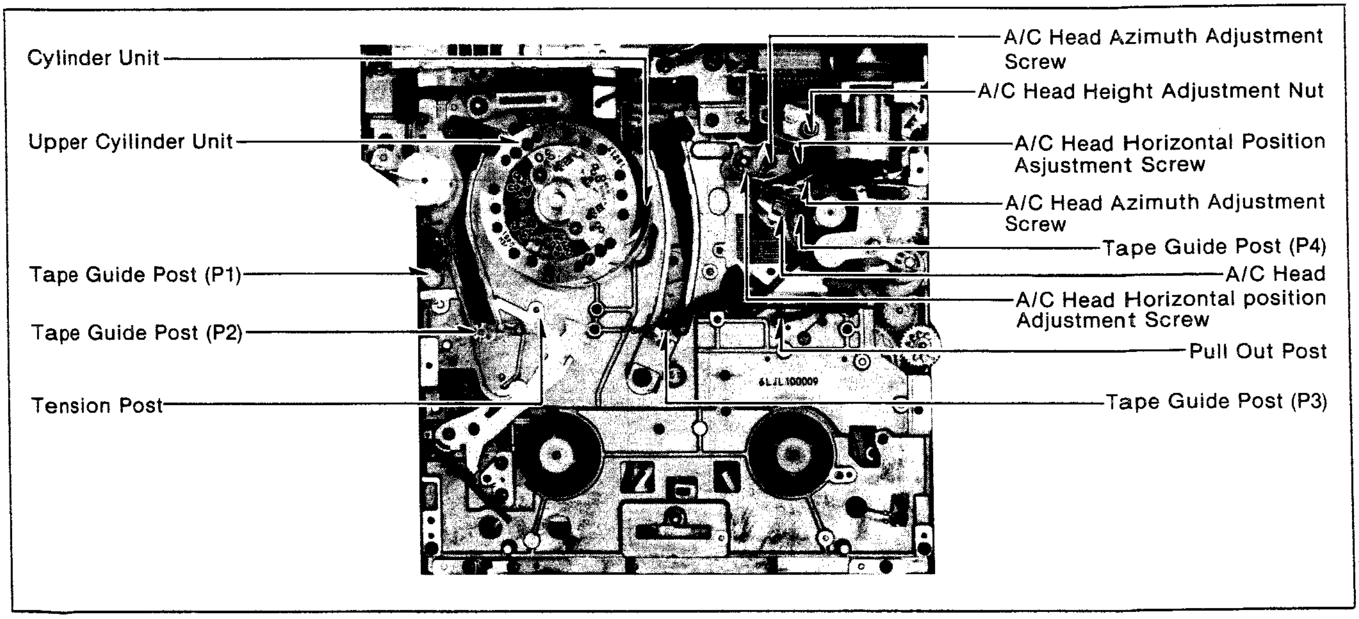

Cylinder Unit
Upper Cyilinder Unit
Tape Guide Post (P1)
Tape Guide Post (P2)
Tension Post
A/C Head Azimuth Adjustment Screw
A/C Head Height Adjustment Nut
A/C Head Horizontal Position Asjustment Screw
A/C Head Azimuth Adjustment Screw
Tape Guide Post (P4)
A/C Head
A/C Head Horizontal position Adjustment Screw
Pull Out Post
Tape Guide Post (P3)

Figure M2

4-2-2. COARSE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHTS (P2 and P3)

<<NOTE>>

The Tape Guide Posts have been precisely adjusted at the factory. Therefore, normally do not change the height of the P2 and P3 Posts.
The following adjustment is required only when replacing the posts.
To prevent the alignment tape from being damaged, use a normal cassette tape for this procedure.

<<TOOL>>

Post Adjustment Plate ; VFK0191
Reel Table Height Gauge ; VFK0190
Post Adjustment Screwdriver ; VFK0329
Check Light ; VFK0343
L Type Screwdriver ; VFK0326

1. Remove the cassette compartment. (Refer to Disassembly Procedures)
2. Place the Post Adjustment Plate over the reel tables. Confirm that the Post Adjustment Plate is firmly seated as shown in Figure M3.

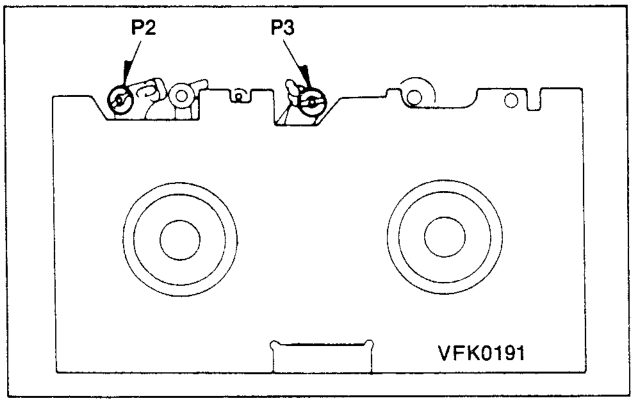


Figure M3

3. Lower 2 tape guide posts (P2 and P3) by turning the Post Adjustment screwdriver so that the condition of post becomes as shown in Figure M4. That is the lower edge of Tape guide should be lower than surface of Adjustment Plate.

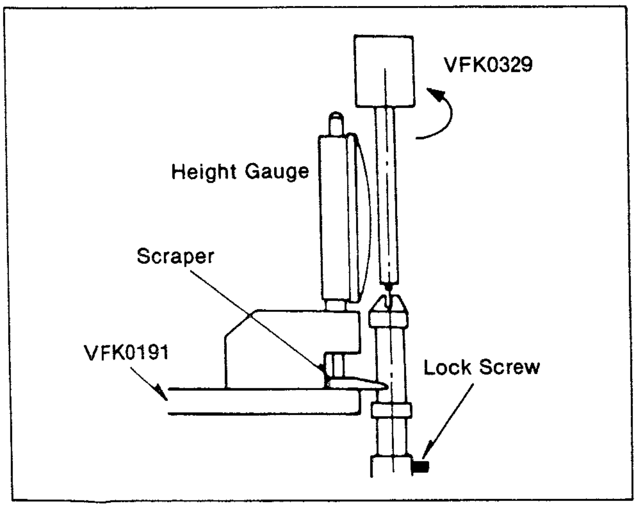


Figure M4

<<NOTE>>

Before turning P2 and P3 posts, slightly loosen the Lock Screw using the L Type Screwdriver.

4. Place the scraper of Reel Table Height Gauge as shown in Figure M5.
   Set the gauge to zero, then raise the post slowly until the lower tape guide just touches the bottom of the scraper. Use the gauge to determine the exact point at which the lower tape guide touches the scraper.

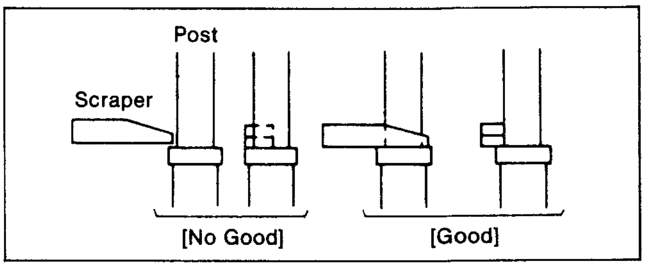


Figure M5

5. After the adjustment, install the cassette compartment referring to Reinstallation of cassette compartment.
6. Play back the beginning portion of **NV-E180** cassette tape, and confirm that tape travel as shown in Figure M6.

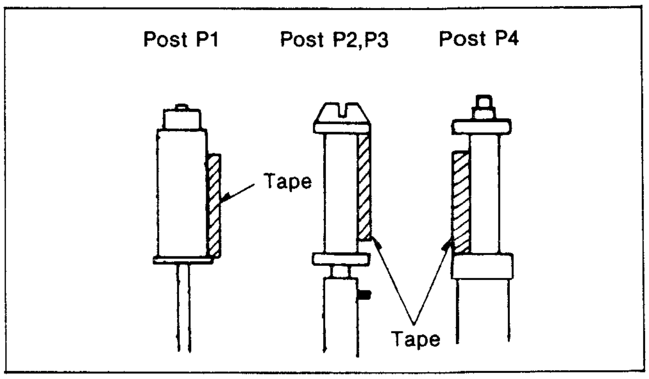


Figure M6

7. Make sure that the edges of the tape are not curling or waving at the bottom or top end of the posts P2, P3 by using the Check Light.
8. If there are waving or frilling at the lower or upper edge of the P2 and P3 posts, readjust the heights of P2 and P3 Posts correctly as shown in Figure M7.

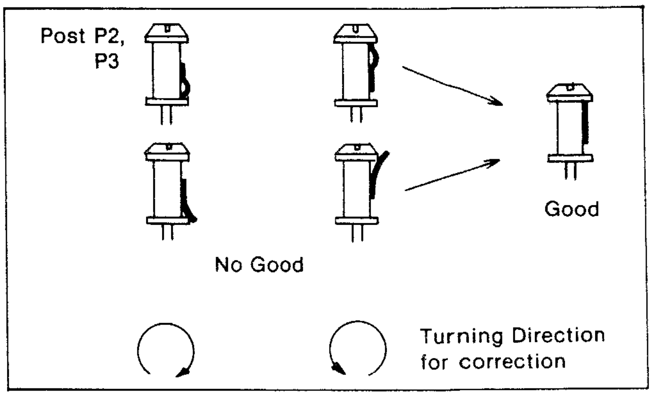


Figure M7

9. And confirm that the tape runs along the Cylinder Lead Correctly.

4-2-3. ADJUSTMENT OF THE PULL OUT POST (P5) HEIGHT

<<TOOL>>
Post Adjustment Plate ; VFK0191
Reel Table Height Gauge ; VFK0190
Nut Driver ; Purchase locally

<<SPEC>>
- 0.03mm +/- 0.01mm

<<NOTE>>
Unless the replacement or adjustment this post is required, the adjustment nut should not be turned.

1. Remove the cassette compartment. (Refer to Disassembly procedures)
2. Place the Post Adjustment Plate over the reel tables.
3. Turn the Worm Shaft counterclockwise (loading direction) until the mechanical condition becomes as shown in Figure M8.

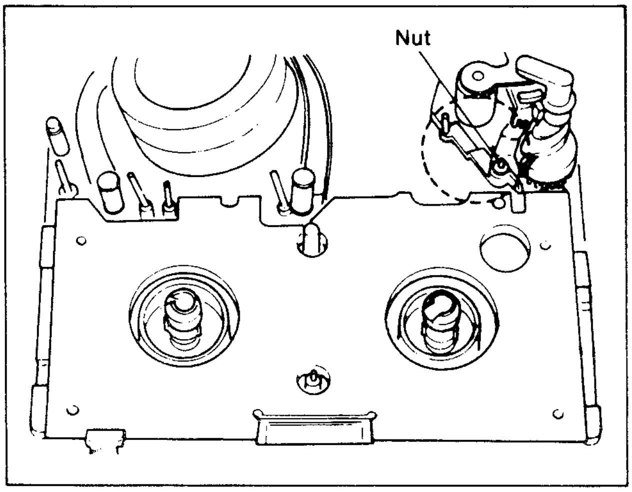


Figure M8

4. Place the Reel Table Height Gauge on the Post Adjustment Plate and set the gauge to zero 0 as shown in Figure M9.

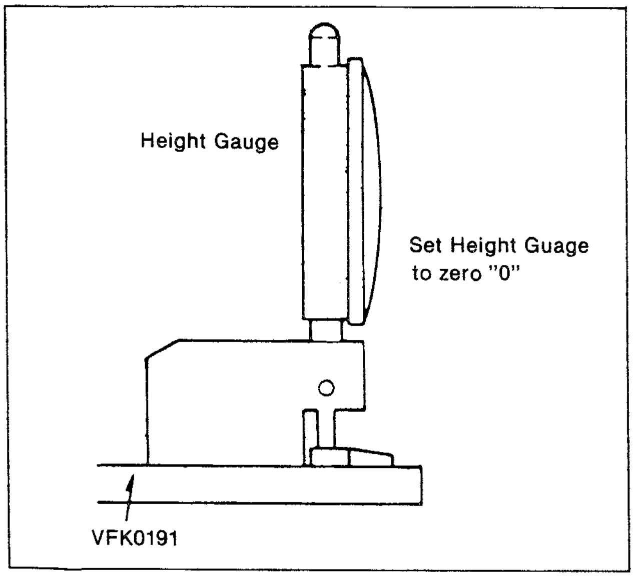


Figure M9

5. Place the Reel Table Height Gauge as shown in Figure M10 and turn the nut slowly until the gauge reads - 0.03mm +/- 0.01mm.

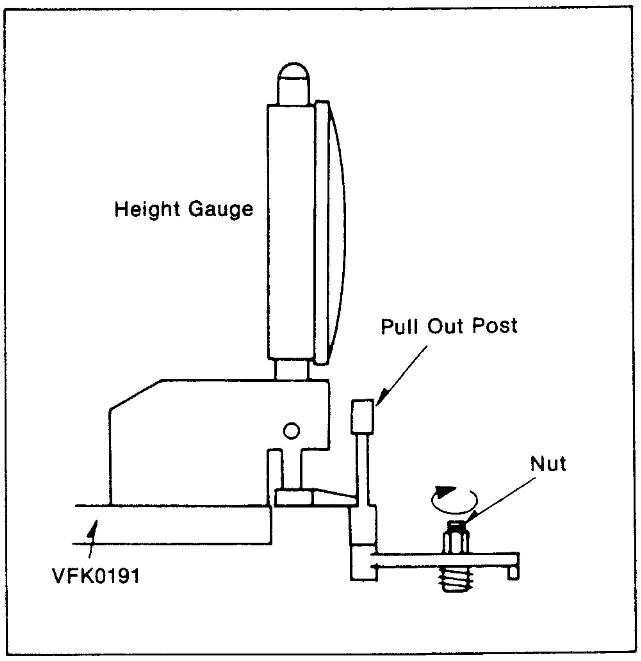


Figure M10

6. After the adjustment, install the cassette compartment. (Refer to Reinstallation of Cassette Compartment).
7. Play back a normal cassette tape on Review Search mode, and make sure that the edges of the tape are not curling or waving at the bottom end of the P4 post by using the Check Light as shown in Figure M11.

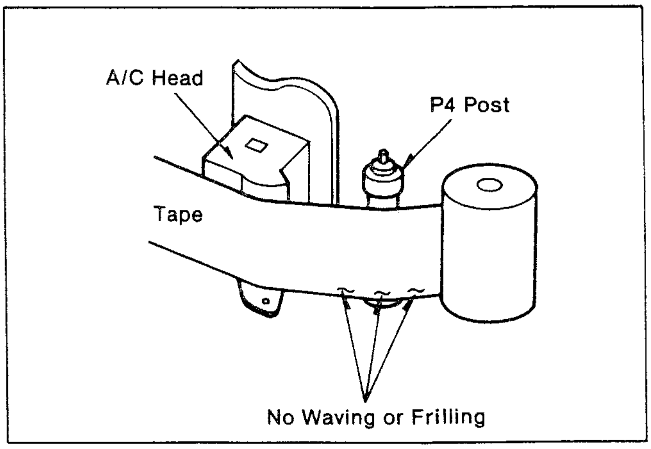


Figure M11

<<NOTE>>
There is easy method to check Waving or Frilling. If there is Waving or Frilling in the lower edge, the white black pattern which is reflected on the tape will curve or not linear as shown in Figure M12.

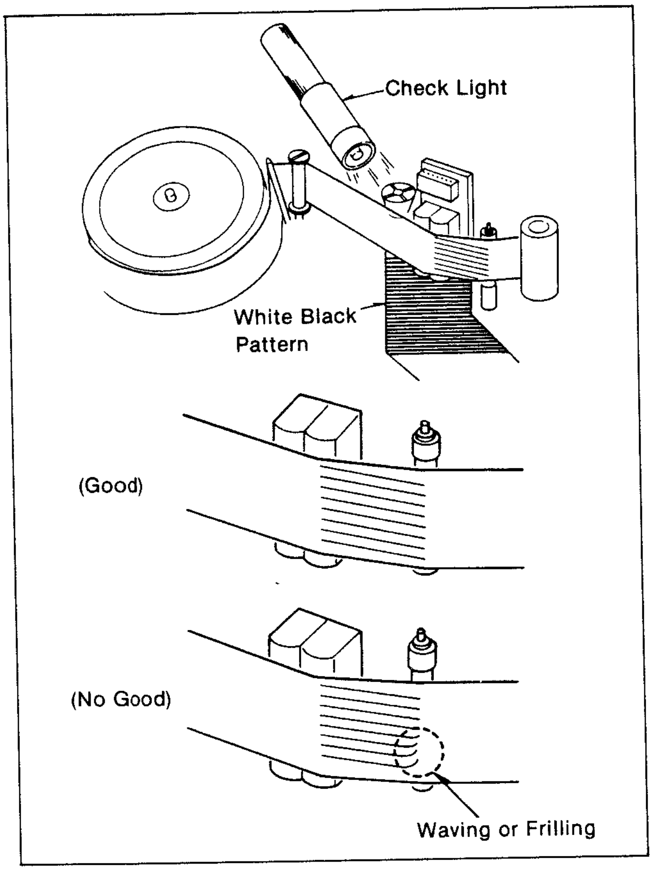

Check Light
White Black Pattern
(Good)
(No Good)
Waving or Frilling

Figure M12

8. If curling appears, readjust P5 post.

4-2-4. COARSE ADJUSTMENT OF THE A/C HEAD HEIGHT

<<NOTE>>
This procedure should be performed only when the A/C Head is replaced.

<<TOOL>>
Check Light ; VFK0343
Nut Driver ; Purchase locally

1. With the tape running, look at the lower edge of the control head by using the check light.
2. Adjust the Nut (A) as shown in Figure M13 by turning the Nut (A) clockwise to lower the head, and counter-clockwise to raise it.

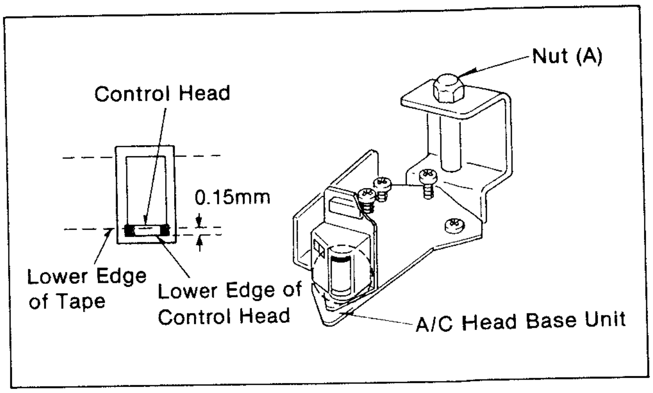

Nut (A)
Control Head
0.15mm
Lower Edge of Tape
Lower Edge of Control Head
A/C Head Base Unit

Figure M13

4-2-5. TILT & AZIMUTH ADJUSTMENT OF THE A/C HEAD

<<NOTE>>
This procedure should be performed only when the A/C Head is replaced or posts heights are readjusted.

<<TOOL>>
Alignment Tape ; VFM8180HADH
Check Light ; VFK0343
Screwdriver(+) ; Purchase locally
VHS Video Tape

1. Play back a VHS Video tape which the amount of tape winding of a Supply Reel is more than the amount of tape winding of a Take up Reel. Turn a screw (B) to clockwise until Waving or Frilling appears in the lower edge of P4 post as Figure M11.

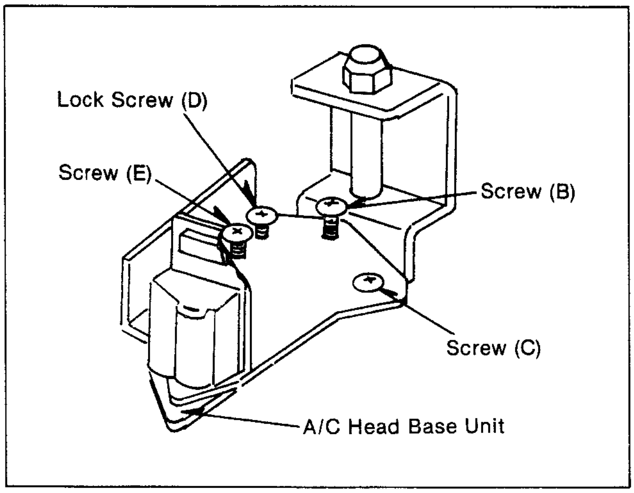


Figure M14

<<NOTE>>
There is easy method to check Waving or Frilling. If there is Waving or Frilling in the lower edge, White Black pattern which is reflected on the tape will curve or not linear. (Figure M12)

2. Turn the screw (B) to counter-clockwise until waving or frilling do not appear in the lower edge of P4 post.
3. Connect the scope CH1 to the Normal Audio Output CH1 and the scope CH2 to the Normal Audio Output CH2 on the rear panel.
4. Play back the 2-nd portion (Normal Audio 10KHz) of the alignment tape (VFM8180HADH).
5. Adjust the screw (C) so that these phases of both channels match as shown in Figure M15.

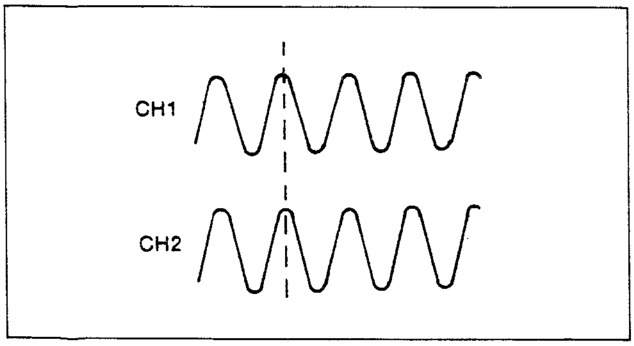


Figure M15

6. Adjust the screw (C) and (B) so that CH1 and CH2 output levels become maximum, these phases of both channels much at the same time (Figure M16). During this adjustment the Lock screw (D) does not touch the A/C Head Base as shown in Figure M17.

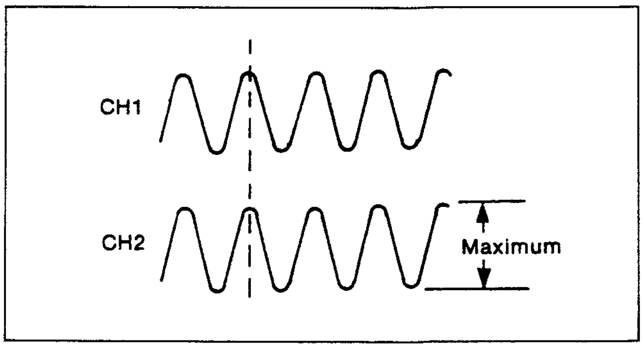


Figure M16

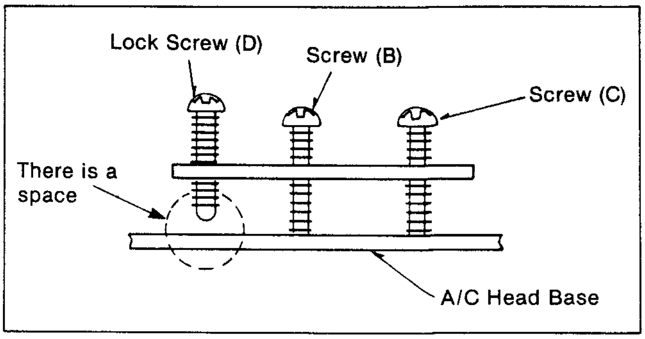


Figure M17

7. Turn the screw (C) to clockwise so that the difference of phases of both channels become 180 degrees as shown in Figure M18.

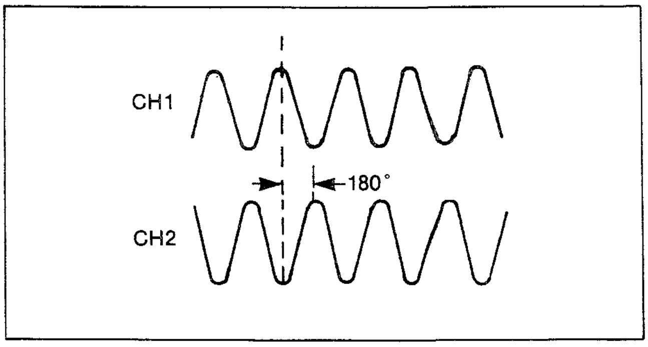


Figure M18

9. Tighten the Lock screw (D) so that these phases of both channels match as shown in Figure M15.

4-2-6. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT (P2 and P3) (LINEARITY)

<<TOOL>>
Alignment Tape ; VFM8180HADH
Post Adjustment Screwdriver ; VFK0329

<<NOTE>>
Before playing back the alignment tape playback a normal cassette tape and confirm correct transport.

1. Connect the scope to TP3005 (RF) on the video (1) board and TP2201 on the servo TP board to Ext-trigger the scope.
2. Play back the 2-nd portion (Monoscope 2) of the alignment tape (VFM8180HADH).
3. Turn the Tracking Control VR and adjust for maximum VIDEO FM envelope.
4. If the RF envelope appears like example A or B in Figure M20 then adjustment of the tape guide post (P2 : Entrance) is necessary.
5. Adjust the tape guide post (P2) with the post adjustment screwdriver so that the RF envelope waveform at the entrance portion becomes flat as shown in Figure M20-C.

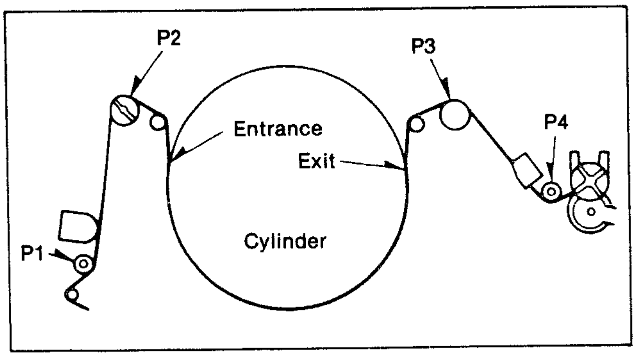

P2
P3
P4
Entrance
Exit
Cylinder
P1

Figure M19-1

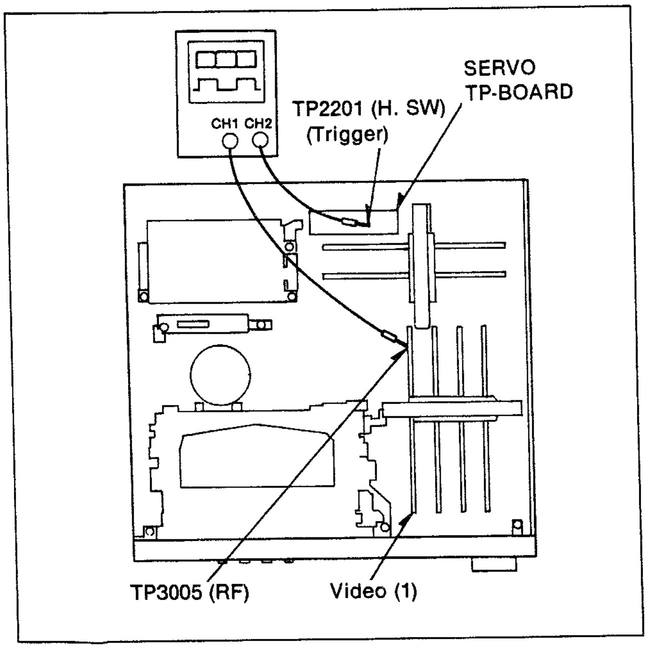

CH1 CH2
SERVO
TP-BOARD
TP2201 (H. SW)
(Trigger)
TP3005 (RF)
Video (1)

Figure M19-2

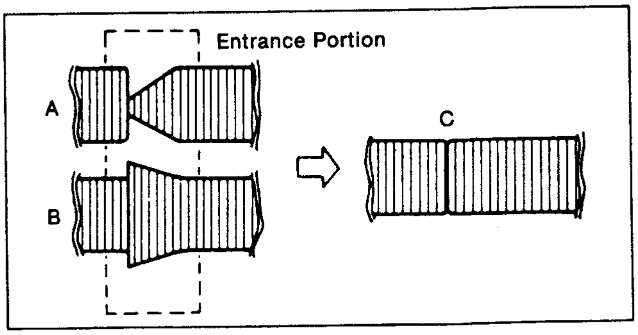

Entrance Portion
A
B
C

Figure M20

6. If the RF envelope appears like example D or E in Figure M21, then adjustment of the tape guide post (P3 : Exit) is necessary.
7. Adjust the tape guide post (P3) in the same manner as the P2 post so that the exit portion becomes flat as shown in Figure M21-F.

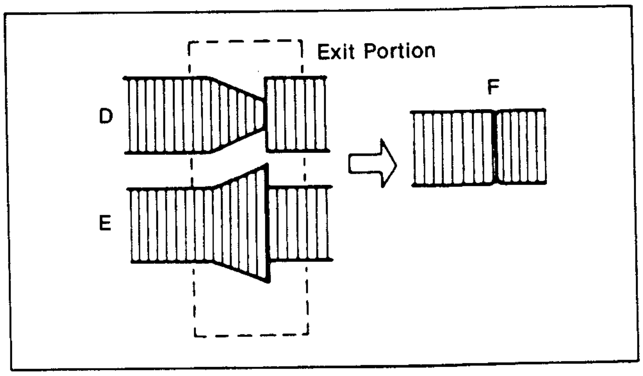

Exit Portion
D
E
F

Figure M21

8. Turn the Tracking VR fully clockwise and counterclockwise. The output envelope should vary nearly parallel with other condition as shown in Figure M22.

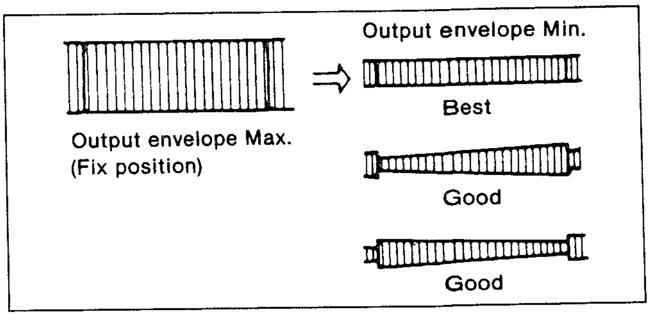

Output envelope Min.
Best
Output envelope Max.
(Fix position)
Good
Good

Figure M22

9. Turn the Tracking VR into center fix position and adjust for maximum RF envelope.
   If the RF envelope does not meet these specifications,

   V1/VO >= 0.7
   V2/VO >= 0.8
   V3/VO >= 0.7

   then repeat steps 4-9 again.

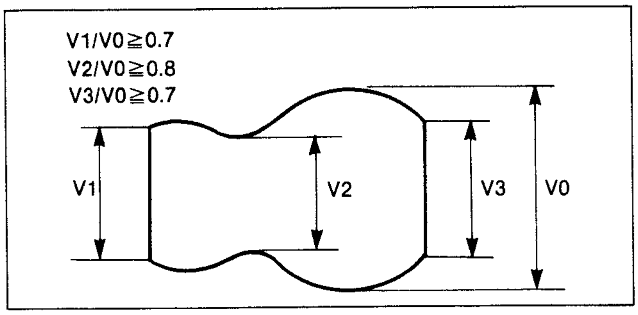


Figure M23

4-2-7. FINE ADJUSTMENT OF THE A/C HEAD HEIGHT

<<NOTE>>
Before this adjustment 5-2-3. Coarse Adjustment of the A/C Head Height should be performed.

<<TOOL>>
Alignment Tape ; VFM8180HADH
Nut Driver ; Purchase locally

1. Connect a scope to the Normal Audio CH2 Output on the rear panel.
2. Play back the 2-nd portion (Normal Audio 10kHz) of the Alignment Tape (VFM8180HADH).
3. Adjust the Nut (A)(Figure M24) so that the CH2 output level becomes maximum as shown in Figure M25.

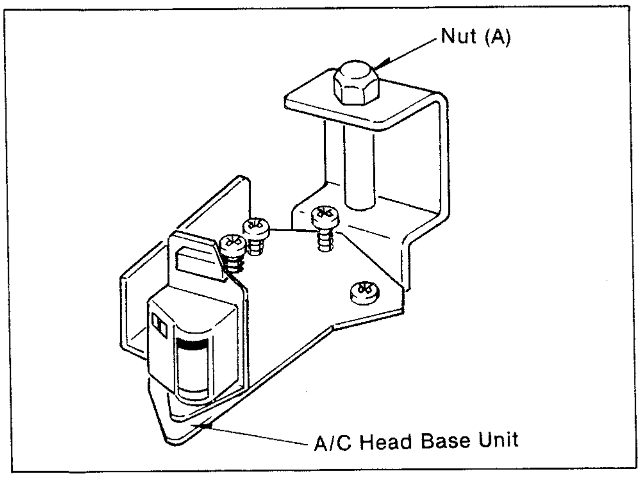


Figure M24

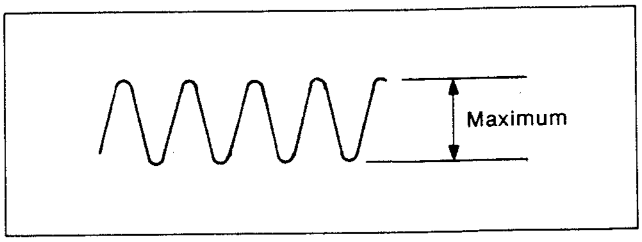


Figure M25

4-2-8. COARSE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)

<<NOTE>>
This procedure should be performed only when the A/C head is replaced, and after performing the tape interchangeability adjustment.

<<TOOL>>
H-Position Adjustment Screwdriver ; VFK0328
Alignment Tape ; VFM8180HADH

1. Set the Tracking Control VR to the center detent(fixed) position.
2. Connect a scope CH1 to TP3005 (RF) on the video (1) board, CH2 to the audio CH1 output on the rear panel.
3. Play back the 4-th position (Monoscope 3 and Audio / Every 10-th field is skipped) of the Alignment tape VFM8180HADH.
4. Adjust the A/C head horizontal position screw so that the phase of audio drop out and video RF envelope drop-out becomes the same as shown in Figure M26.

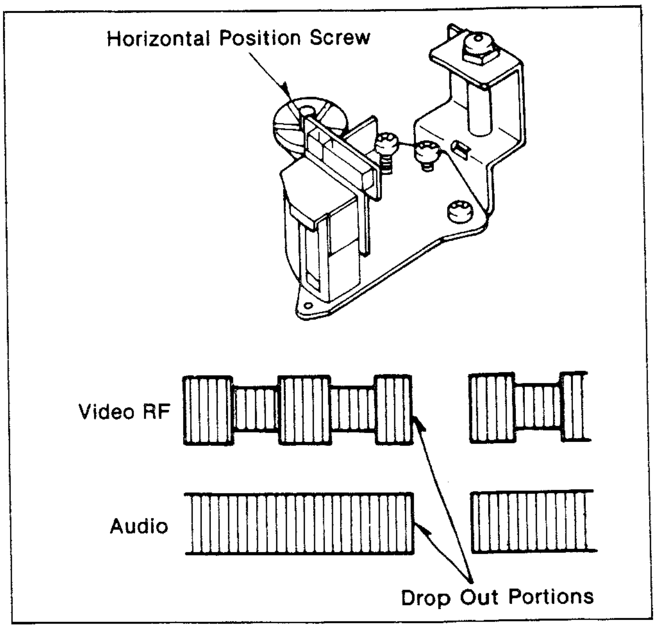


Figure 3-26 Horizontal Position Adjustment of A/C Head

<<NOTE>>
After completion the fine adjustment of the A/C head horizontal position, the phase of Audio drop-out and Video RF envelope drop-out may be changed slightly.

4-2-9. FINE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)

<<NOTE>>
This procedure should be performed only when the A/C head is replaced, and after performing the tape interchangeability adjustment.

<<TOOL>>
H-Position Adjustment Screwdriver ; VFK0328
Alignment Tape ; VFM8180HADH

1. Set the Tracking Control VR to the center fix position.
2. Connect the scope to TP3005 (RF) on the video (1) board and TP2201 on the servo TP board to Ext-Trigger the scope as shown in Figure M19-2.
3. Play back the 2-nd portion (Monoscope 2) of the alignment tape (VFM8180HADH).
4. Adjust the Horizontal Position Screw (Figure M25) of A/C head so that the RF signal becomes maximum level as shown in Figure M27.

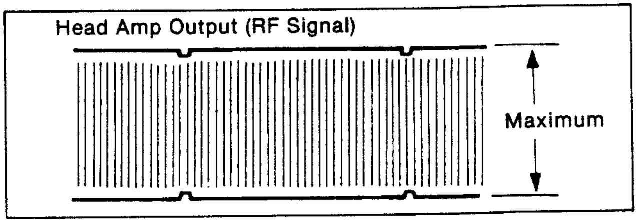


Figure M27

4-3. OTHER MECHANICAL ADUSTMENT PROCEDURES

4-3-1. MEASUREMENT AND ADJUSTMENT OF BACK TENSION

<<TOOL>>
Back Tension Meter ; VFK0132
VHS Cassette Tape (180 min. tape except S-VHS tape)

A. FWD Tension Adjustment

<<SPEC>>
23g to 27g

1. Play back the cassette tape from the beginning and wait until the tape movement get the stabilization. (for approx. 10 to 20 seconds)
2. Pull the Impedance Roller in the direction indicated the arrow in Figure M28 secure it with a piece of adhesive tape.
3. Insert the Back Tension Meter into the path of a tape, and measure the back tension.
4. If it is out of specification, replace the Tension spring.

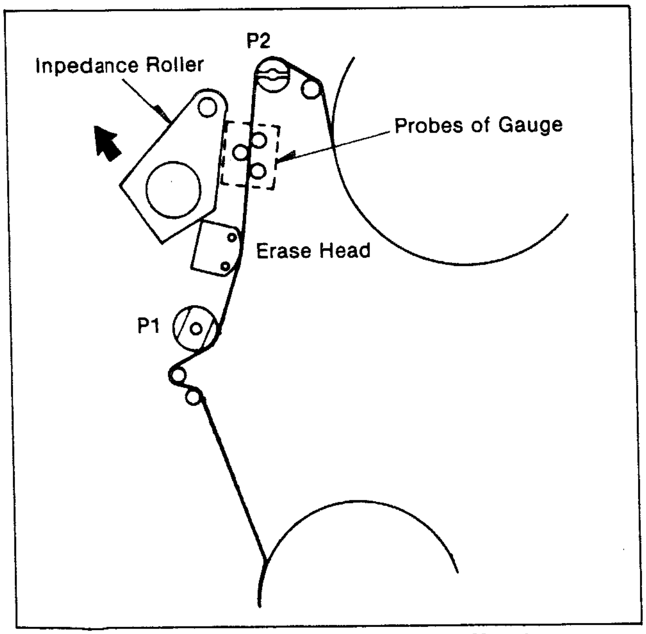


Figure M28 Measurement of Back Tension

B. Rev Tension Adjustment

<<SPEC>>
30g to 60g

1. Play back the cassette tape on SP Reverse Play mode from the beginning and wait until the tape movement get the stabilization. (for approx. 10 to 20 seconds)
2. Pull the Impedance Roller in the direction indicated by the arrow in Figure M28 secure it with a piece of adhesive tape.
3. Insert the Back Tension Meter into the path of a tape, and measure the back tension.
4. If it is out of specification, replace the Tension spring.

<<NOTE>>
While measuring, make sure that the three probes of the meter are all in good contact with the tape.
As the tension meter is very sensitive, we recommend taking 3 separate readings.

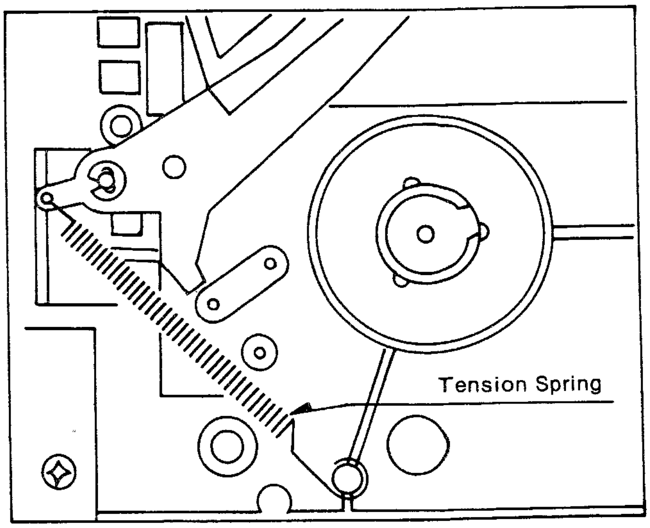


Figure M29

4-3-2. HEIGHT ADJUSTMENT OF THE REEL TABLES

<<TOOL>>
Post Adjustment Plate ; VFK0191
Reel Table Height Gauge ; VFK0190

<<SPEC>>
0 - 0.15mm

1. Remove the cassette compartment.
2. Place the Post Adjustment Plate on the reel tables.
3. Place the Reel Table Height Gauge on the plate so that the scraper of the gauge touches the cut-out portion of the plate, then set the gauge to zero 0 as shown in Figure M30.

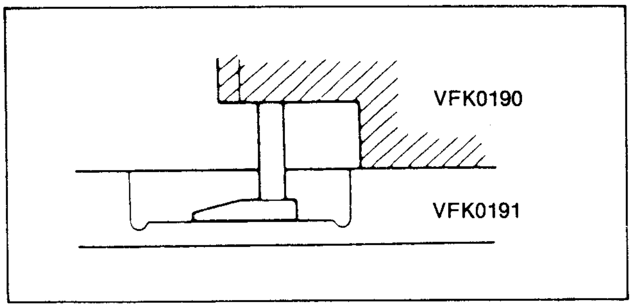


Figure M30

4. Measure the height of the top surface of either Reel Table and note the difference in height from the plate cut-out. (Figure M30 and M31) Repeat this procedures for the other Reel Table.

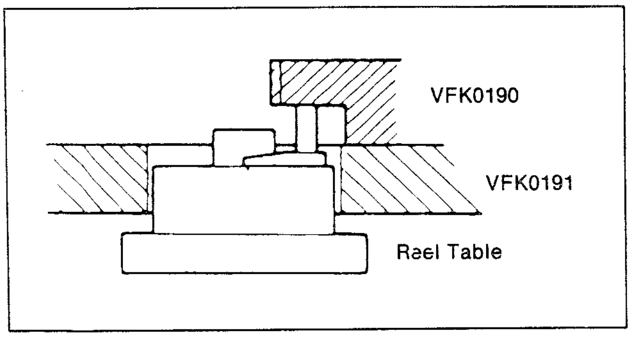


Figure M31

5. If the difference of Supply Reel table is more than 0.15mm higher or lower, replace the Supply Reel table. When the difference of Take Up Reel table is more than 0.15mm higher or lower, adjust nut (A)(Figure M32) so that measurement becomes the spec. If you can not adjust to the spec., replace Take Up Reel table.

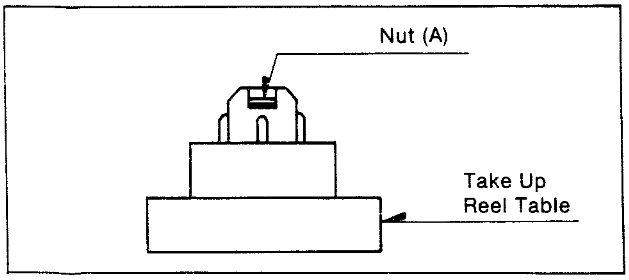


Figure M32

<<NOTE>>
When replacing the tables, the DD Reel Unit needs to be removed from the chassis.
Remove 6 screws and carefully lift it out as shown in Figure M33.

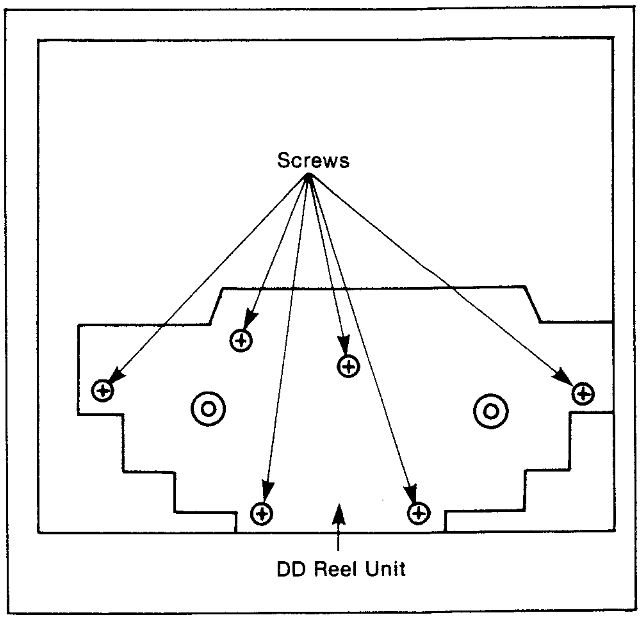


Figure M33 Bottom View of DD Reel Unit

<<NOTE>>
When assembling the DD Reel Unit, slide a Main Rod to far left side by rotating the Center Gear, and then screw the 6 screws.

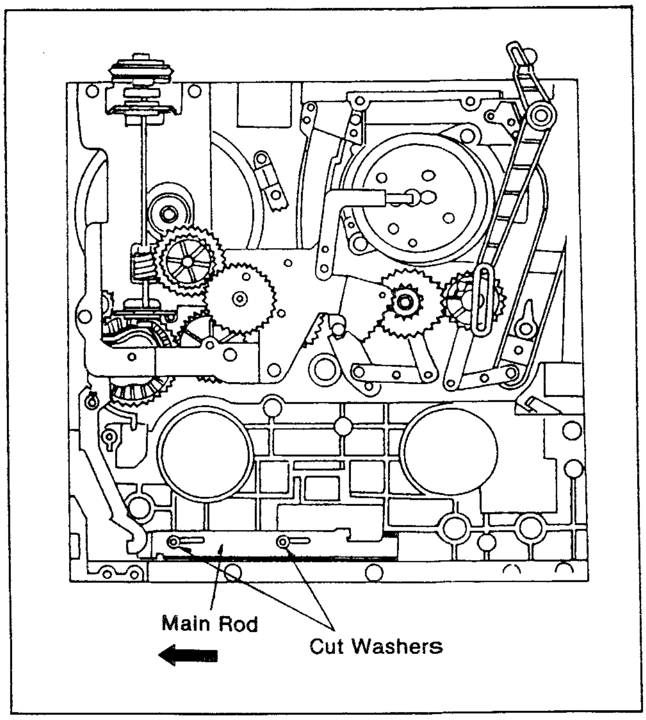


Figure M34

4-3-3. ADJUSTMENT OF THE CAPSTAN THRUST GAP

<<TOOL>>
Reel Table Height Gauge ; VFK0190
Height Adjustment Fixture ; VFK0344

<<SPEC>>
0.5mm +/- 0.05mm

1. Turn a Thrust Adjust Screw slightly until the capstan rotor unit just touches the coil of the capstan stator unit.

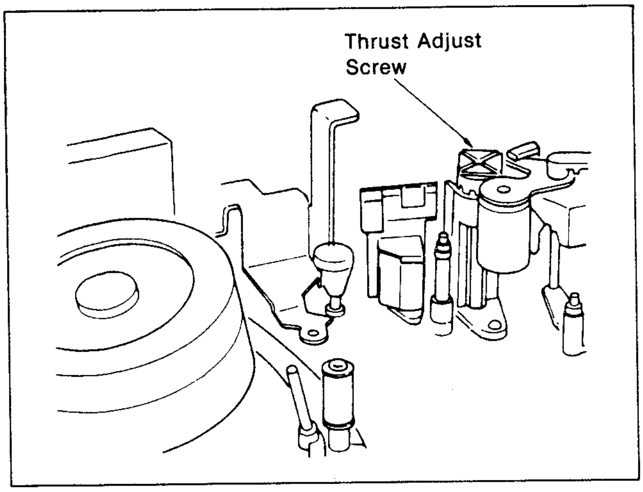

Thrust Adjust Screw

Figure M35

2. Unscrew 4 screws and remove the Gear Base Unit.
3. Set the Height Adjustment Fixture on the capstan Rotor unit as shown Figure M36.

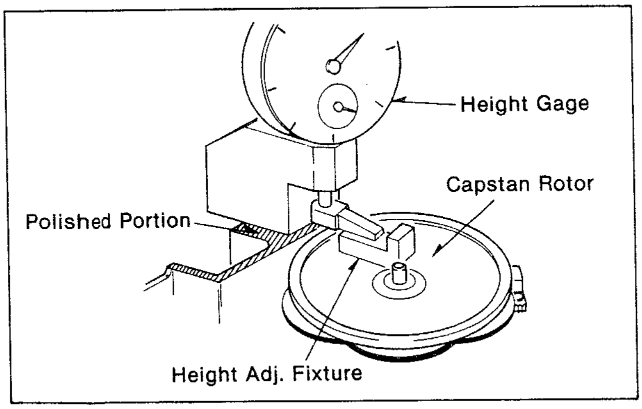

Height Gage
Capstan Rotor
Polished Portion
Height Adj. Fixture

Figure M36

4. Adjust the Thrust Adjust screw so that the thrust gap becomes 0.5mm +/- 0.05mm.

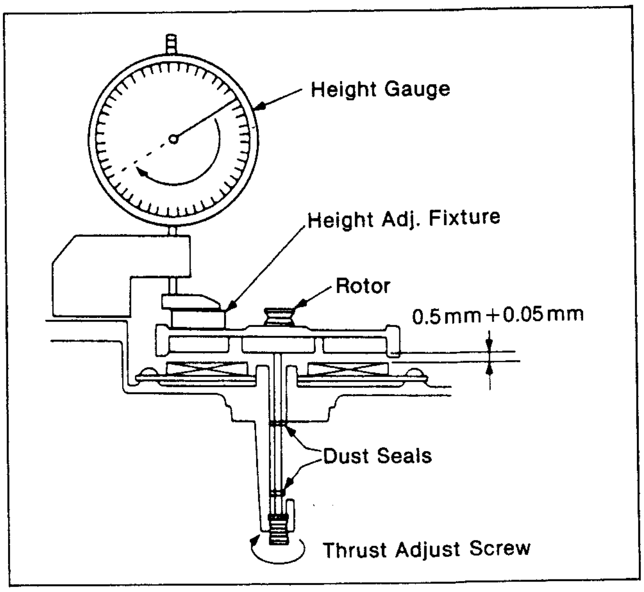

Height Gauge
Height Adj. Fixture
Rotor
0.5mm+0.05mm
Dust Seals
Thrust Adjust Screw

Figure M37

4-3-4. MEASUREMENT AND ADJUSTMENT OF THE BRAKE TORQUE

<<TOOL>>
Torque Gauge ; VFK0133
Adapter for Gauge ; VFK0134

1. Remove the top cover and the cassette compartment.
2. Attach the adapter to the torque gauge and place the deck in STOP mode (Subloading mode).
3. Place the torque gauge on the reel table as shown in Figure M38. The weight of the gauge should not rest on the reel table.
4. Turn the torque gauge in the direction indicated in Figure M39 until the brake begins slipping and read the gauge.

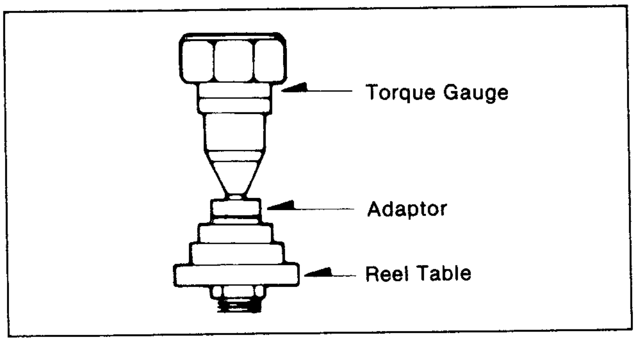
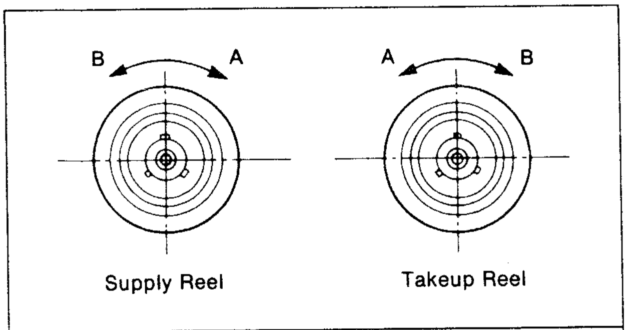


Figure M38 Measuring Method



	A	B
Takeup	more than 550g-cm	more than 50g-om
Supply		more than 40g-cm

Figure M39 Specification of Brake Torque

5. If it is out of specification, replace the Brake Spring.

<<NOTE>>
If the proper brake torque cannot be obtained by replacing the Brake Spring, clean the braking surface of the reel table with a soft cloth and re-measure the brake torque. If its still out of specification, replace the Main Brake (S) or (T) Unit.

4-3-5. ADJUSTMENT OF PRESSING FORCE OF PRESSURE ROLLER UNIT

<<TOOL>>
Fan Type Tension Gauge ; VFK66
Fine Adj. Screwdriver ; VFK0330
VHS 180 min. Cassette Tape

<<SPEC>>
930g +/- 70g

1. Remove the Cassette Compartment.
2. Play back the end portion of VHS (120 min.) tape.
3. Insert a Fine Adj. Screwdriver in the hole (C).
4. Slightly losen the screw (B).
5. Set the Fan Type Tension Gauge to the part (A) of Pinch Roller Unit.
6. Press the Arm with the Gauge, in the direction indicated by the arrow as show in Figure M40.
7. Adjust the Solenoid Base so that the reading of the Tension Gauge is 930g +/- 70g at the moment of the tape running stop.

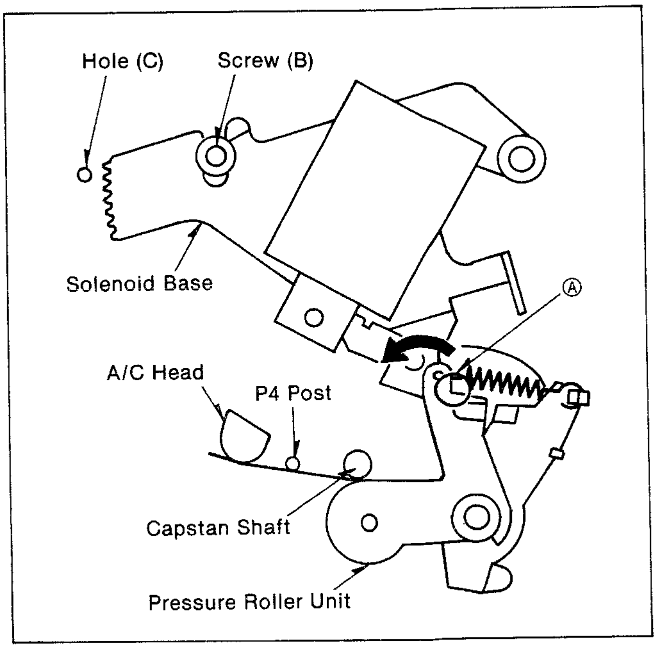


Figure M40

4-3-6. ADJUSTMENT OF THE REV. TENSION SENSOR POSITION

<<TOOL>>

Tension Sensor Adj. Fixture ; VFK0578
Tension Post Adj. Plate ; VFK0236
Fine Adj. Screwdriver ; VFK0330
Digital Volt Meter ; Purchase locally

<<NOTE>>

Assemble a Tension Sensor Adjustment Fixture (VFK0578) and a Tension Post Adj Plate (VFK0236) as shown in Figure M41.

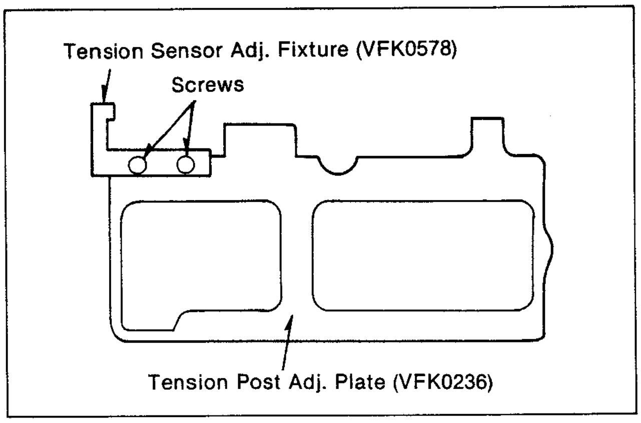

Tension Sensor Adj. Fixture (VFK0578)
Screws
Tension Post Adj. Plate (VFK0236)

Figure M41

1. Remove the Top Plate and Cassette Holder Unit. (refer to Disassemble Procedures)

<<NOTE>>

Do not disconnect 4Pin (exept 2P) flat wire from connector P1508 on the right side of Cassette Compartment.

2. Push the Sub Wiper Arm (R) to direction of Cassette loading. Then the Sub Wiper Arm (R) goes down itsedlf and mode of machine change to STOP.
3. Turn the Power switch off.
4. Remove the Cassette Compartment (refer to Disassmbly Procedures) and disconnect 4Pin flat wire form P1508.
5. Connect the V.T.V.M. or D.V.M. to TP2502 on the Reel Servo C.B.A.
7. Place the Tension Post Position Adjustment Plate with the Fixture over the reel tables as shown in Figure M42.

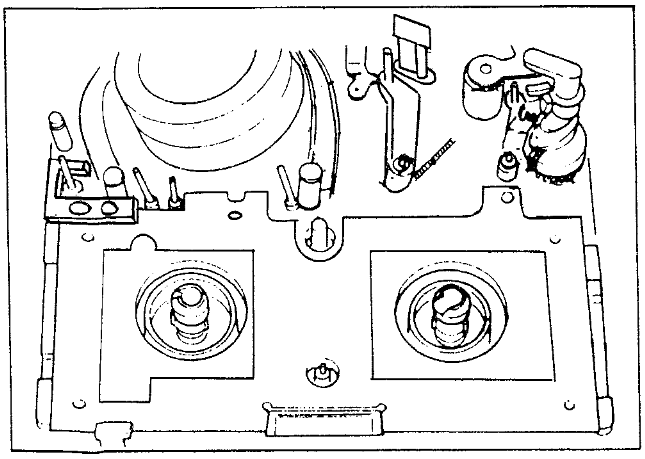


Figure M42

8. Turn the Power switch on.
9. Slightly loosen 2 screws (C). Insert a Fine Adj. Screwdriver in the hold (D). (Figure M43)

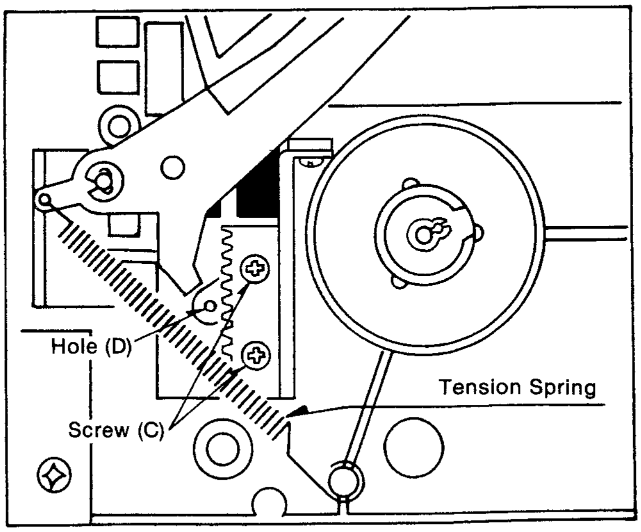


Figure M43

10. Adjust the Rev Sensor Position so that measurement becomes D.C. 2.0V to 2.5V.
11. Remove the Tension Sensor Fixture.
12. Reinstall the Cassette Compartment.
13. Confirm Playback picture (Rev Playback mode, Playback mode etc.)

4-3-7. ADJUSTMENT OF THE FG HEAD GAP

<<SPEC>>

0.17mm to 0.18mm

1. Slightly loosen 2 screws. (Figure M44)
2. Put the paper which is used for cover page of this volume into the gap between F.G. Head and Capstan rotor. (The thickness of the cover page is approx. 0.17mm).
3. After adjustment, tighten 2 screws.

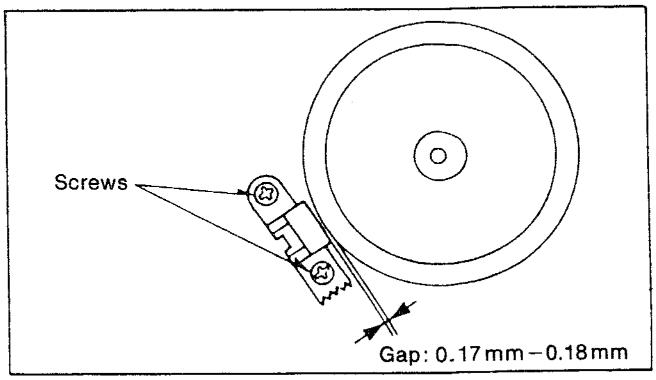


Figure M44

<<NOTE>>

Do not touch the surface of rotor and keep any magnetizable material away.

4-4. ASSEMBLY AND ADJUSTMENT PROCEDURES OF MECHANISM

The mechanism of this model is mostly engaged to the System Control Circuit, through the mode select switch.
Therefore the relation between the mode select switch and the cam gear decides all further mechanical movement of the mechanical parts such as levers, gears, rollers and so on.
If these parts are not fixed properly, the unit will be unloaded or compulsorily stopped.
And it will result being damaged at any mechanical or electrical parts.
The overall mechanical condition (alignment) of bottom and top view are shown in Figure M45 and Figure M46. This mechanical adjustment is performed in the STOP mode.

4-4-1. CONFIRMATION OF ALIGNMENT CONDITION

1. Remove the Loading Belt.
2. Unscrew 4 screws and remove the Gear Base Unit.(Figure M45)
3. Turn the Center Gear to counter-clockwise until 2 big holes of Center Gear align with 2 big holes of Retainer Gear and Ring Gear and Chassis as shown in Figure M47.
4. Identification hole on the Mode Select Switch at 6 oclock position and aligned with small hole on Pinch Cam as shown in Figure M46.
5. P5 Arm is completely loading position and the Inclined Base (S) and (T) are completely unloading position.

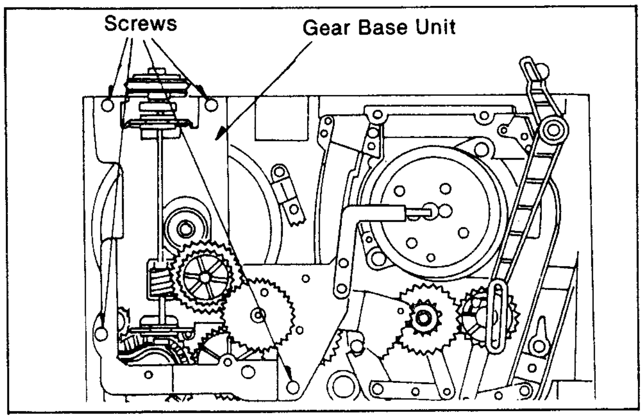

Screws
Gear Base Unit

Figure M45

6. Small hole on Sub Cam Gear should align with small hole on the Connection Gear and rectangular mark on the Connection Gear should be at a 3 oclock position.
7. Pressure Roller Unit is UP position.

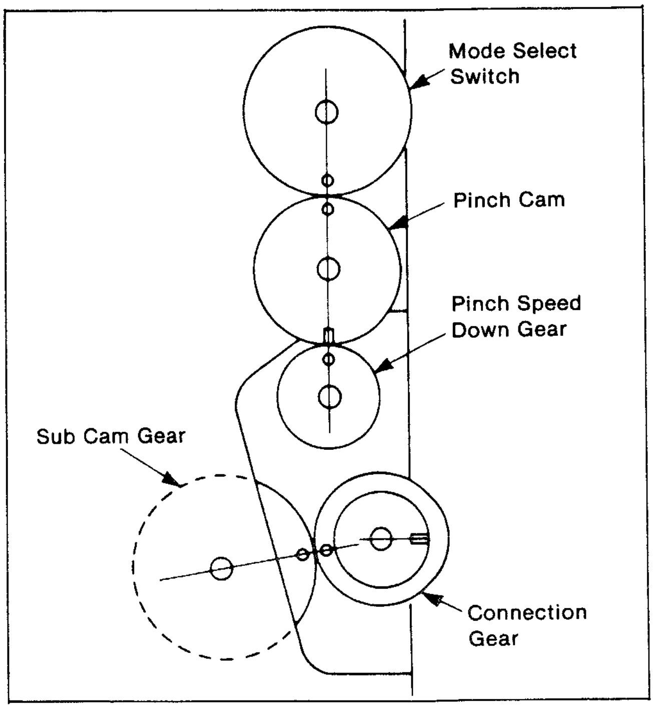

Mode Select Switch
Pinch Cam
Pinch Speed Down Gear
Sub Cam Gear
Connection Gear

Figure M46 Top View of Overall IQ-Mechanical Condition

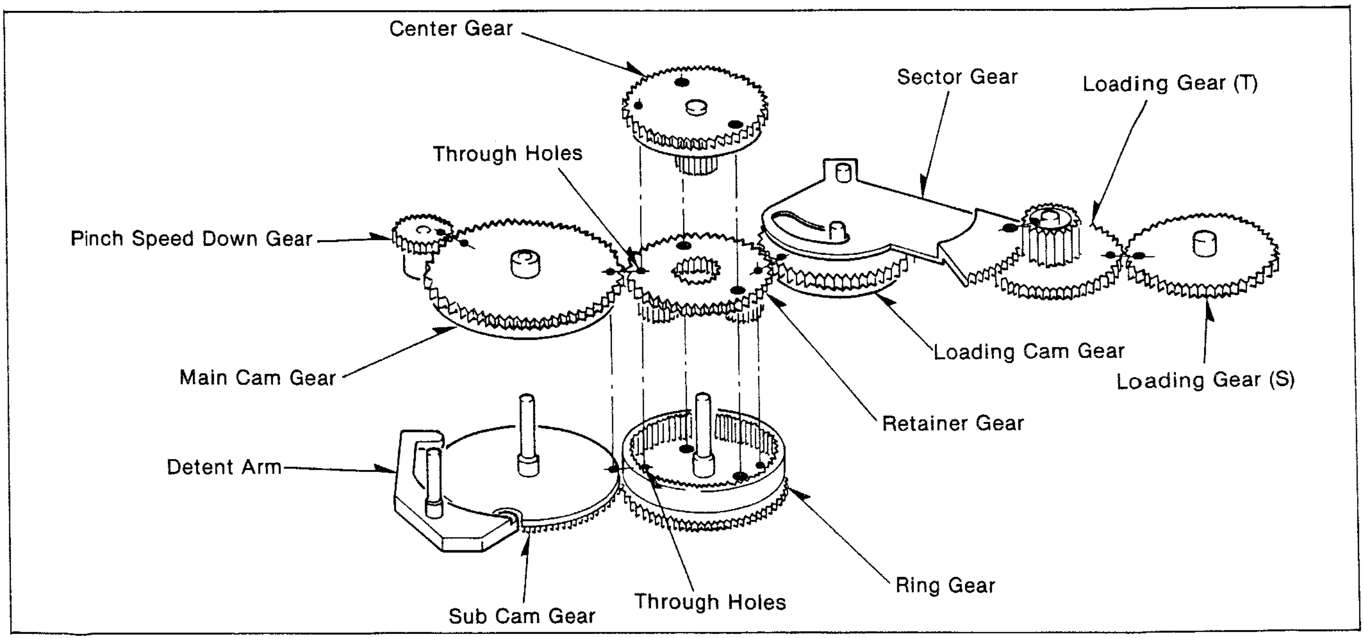

Center Gear
Sector Gear
Loading Gear (T)
Through Holes
Pinch Speed Down Gear
Main Cam Gear
Loading Cam Gear
Loading Gear (S)
Retainer Gear
Detent Arm
Ring Gear
Sub Cam Gear
Through Holes

Figure M47 Bottom View of Overall Mechanical Condition

4-4-2. ASSEMBLY PROCEDURES OF SUB CAM GEAR,RING GEAR AND DETENT ARM

1. Install the Ring Gear so that the two holes on the Ring Gear align with the two holes on the chassis as shown in Figure M48.
2. Install the Sub Cam Gear so that the large hole on Sub Cam Gear aligns with the hole on chassis. Also the small hole (located just outside of large hole) on Sub Cam Gear should align with the hole on Ring Gear as shown in Figure M48.
3. Confirm that the small hole on Sub Cam Gear is aligned with the small hole on Connection Gear as shown in Figure M46 (In case of the Connection Gear is already installed).
4. Install the Detent Arm and make sure Detent Arm seats perfectly in detent of Sub Cam Gear as shown in Figure M48.

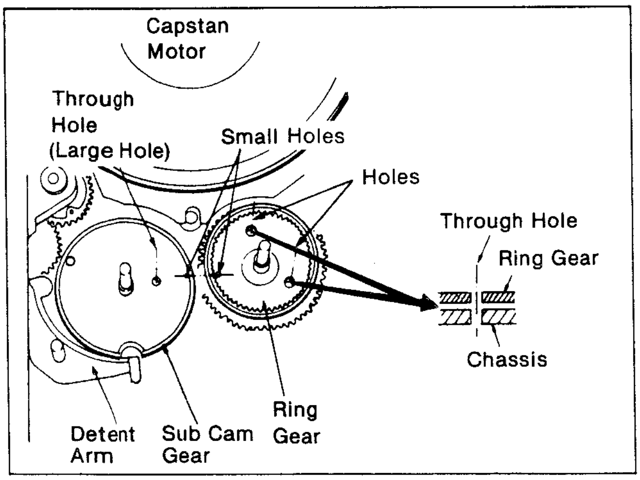

Capstan Motor
Through Hole (Large Hole)
Small Holes
Holes
Through Hole
Ring Gear
Chassis
Ring Gear
Detent Arm
Sub Cam Gear

Figure M48

4-4-3. ASSEMBLY PROCEDURES OF MAIN CAM GEAR AND PINCH 1 SPEED DOWN GEAR

1. Install the Main Cam Gear onto the Sub Cam Gear so that the small hole on the Main Cam Gear aligns with small hole on the Ring Gear as shown in Figure M49.
2. Insert a retaining ring.
3. Install the Pinch Speed Down Gear from top side of chassis so that the small hole on the Main Cam Gear aligns with small hole on the Pinch Speed Down Gear as shown in Figure M49.

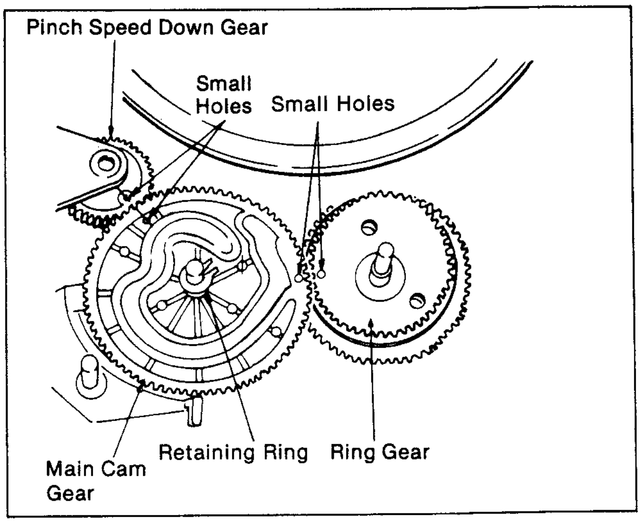

Pinch Speed Down Gear
Small Holes
Small Holes
Main Cam Gear
Retaining Ring
Ring Gear

Figure M49

4-4-4. ASSEMBLY PROCEDURES OF LOADING CAM GEAR AND RETAINER GEAR

1. Install the Retainer Gear onto the Ring Gear so that the two holes on the Retainer Gear align with the two holes on the Ring Gear, at this time, small hole on the Main Cam Gear should aligns with small hole on the Retainer Gear as shown in Figure M50.
2. Install the Loading Cam Gear so that the small hole which is directly outside of the large hole on the Loading Cam Gear is aligned with the outside hole of the Retainer Gear as shown in Figure M50.

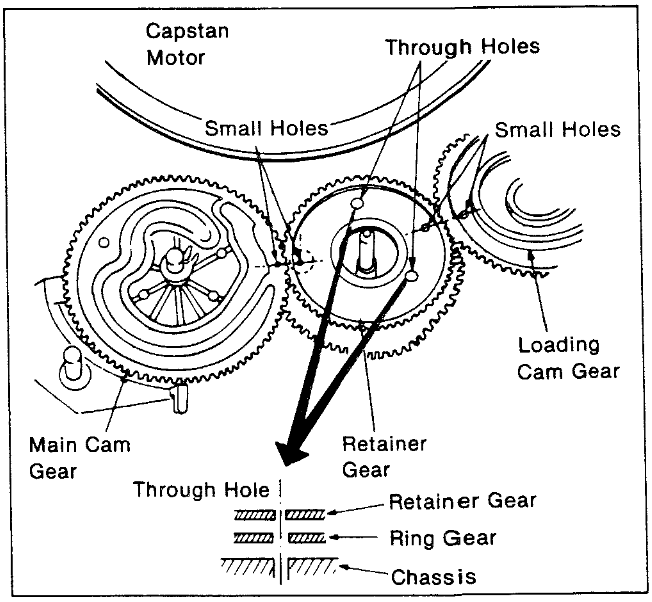

Capstan Motor
Through Holes
Small Holes
Small Holes
Loading Cam Gear
Main Cam Gear
Retainer Gear
Through Hole
Retainer Gear
Ring Gear
Chassis

Figure M50

4-4-5. ASSEMBLY PROCEDURES OF CENTER GEAR

1. Softly install the Center Gear onto the Retainer Gear so that the two holes in the Center Gear align with the holes on the Retainer Gear, then install the cut washer as shown in Figure M51.

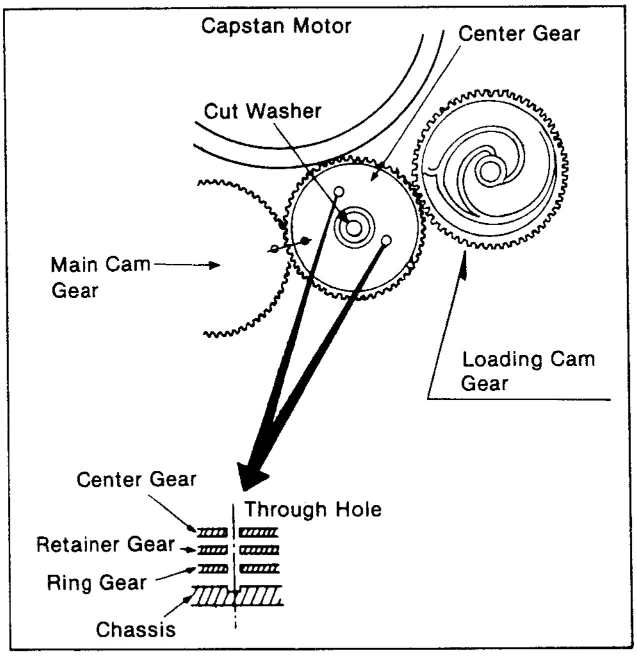

Capstan Motor
Center Gear
Cut Washer
Main Cam Gear
Loading Cam Gear
Center Gear
Through Hole
Retainer Gear
Ring Gear
Chassis

Figure M51

4-4-6. ASSEMBLY PROCEDURES OF MAIN LEVER AND CAM FOLLOWER ARM UNIT

1. Install the Main Rod and then insert the cut washers as shown in Figure M52.
2. Install the Cam Follower Arm so that the pin of the Cam Follower Arm inserts into the groove of the Main Cam Gear and also inserts into the slot on the Main Rod, insert the retaining ring.

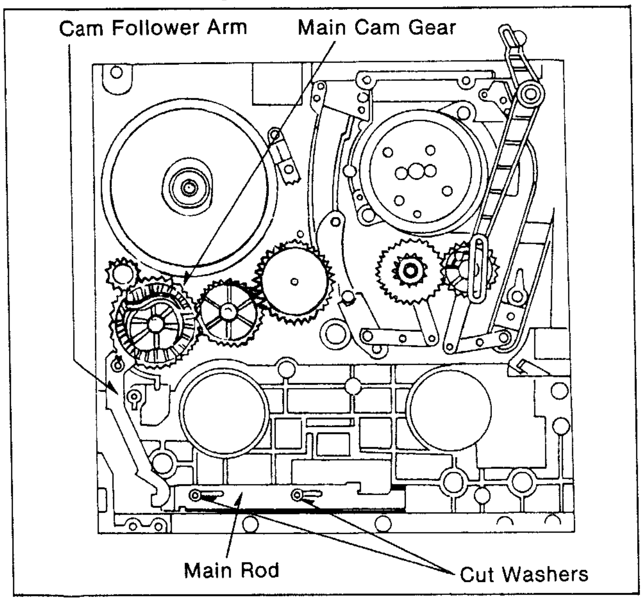

Cam Follower Arm
Main Cam Gear
Main Rod
Cut Washers

Figure M52

4-4-7. ASSEMBLY PROCEDURES OF LOADING GEAR (T) ,LOADING GEAR (S) AND SECTOR GEAR

1. Set the P2 and P3 posts to fully unloaded position, then install the Loading Gear (T) and (S) so that the outer hole on the Loading Gear (T) aligns with the outer hole on the Loading Gear (S) as shown in Figure M53.
2. Install the Sector Gear so that the outer hole in the Sector Gear aligns with the projection mark on Loading Gear (T).
3. Insert 3 retaining rings as shown in Figure M54.

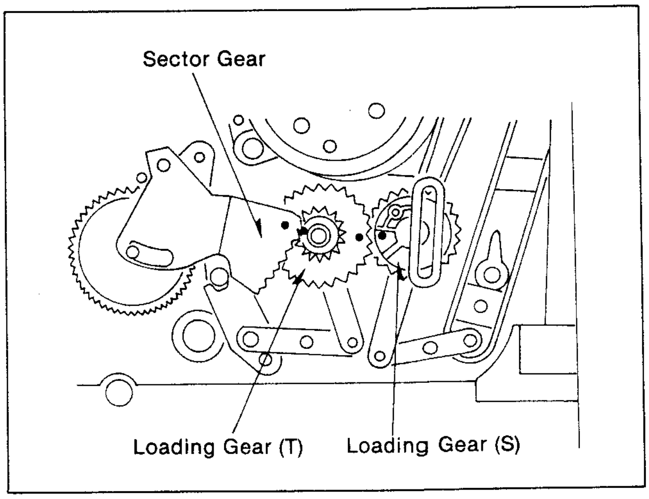

Sector Gear
Loading Gear (T)
Loading Gear (S)

Figure M53

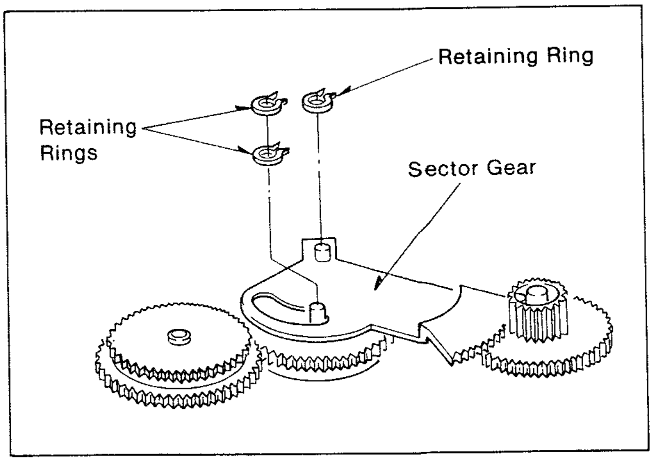

Retaining Ring
Retaining Rings
Sector Gear

Figure M54

4-4-8. ASSEMBLY PROCEDURES OF CONNECTION GEAR

<<NOTE>>
Before assembling, Sub Cam Gear position (and positions of bottom side gears) must be correct as described before (Figure M46).

1. Install the Connection Gear so that the small hole on the Connection Gear aligns with the small hole on the Sub Cam Gear as shown in Figure M55.

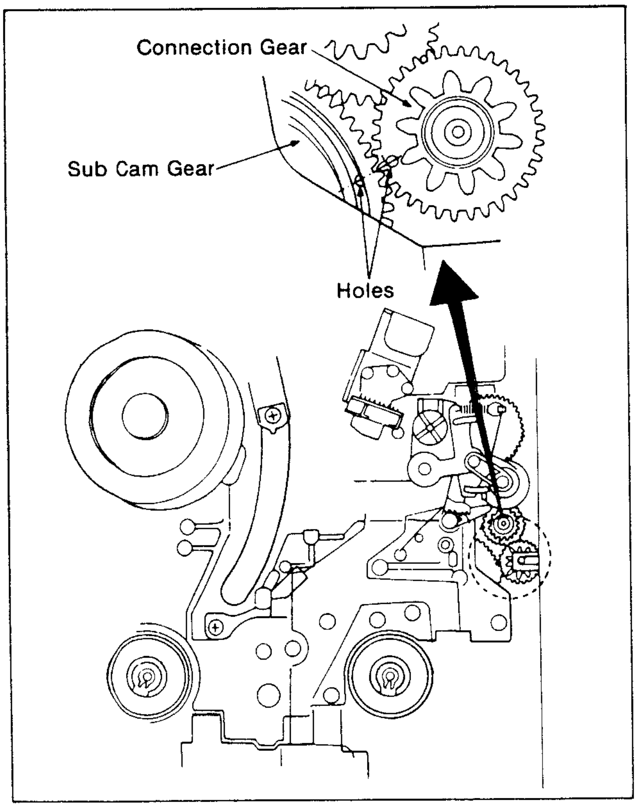

Connection Gear
Sub Cam Gear
Holes

Figure M55

4-4-9. ASSEMBLY PROCEDURES OF MODE SWITCH AND P5 PULL OUT SECTOR GEAR

1. Turn the Center Gear to unloading position.
2. Install the Mode Select Switch and tighten the mounting screw, then solder the 5 soldering portions.
3. Install the P5 Pull Out Sector Gear so that the hole of P5 Pull Out Sector Gear aligns with the tip of gear at P5 Arm as shown in Figure M56.

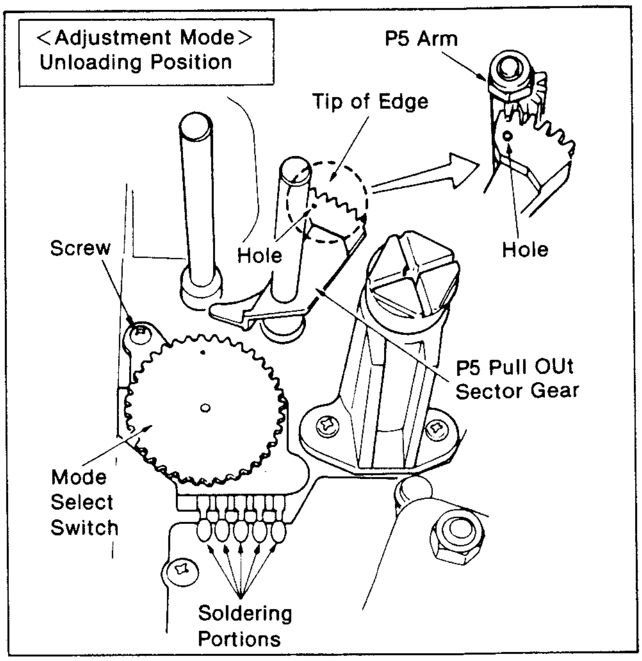

<Adjustment Mode>
Unloading Position
P5 Arm
Tip of Edge
Screw
Hole
Hole
P5 Pull OUt Sector Gear
Mode Select Switch
Soldering Portions

Figure M56

4-4-10. ASSEMBLY PROCEDURES OF PINCH CAM AND PRESSURE ROLLER UNIT

1. Install the Pinch Cam while pushing the P5 post forward. The gear of the Pinch Cam should drop to a seated position. In this position make sure hole in the Mode Select Switch aligns with small hole on the Pinch Cam, also the small rift on the Pinch Cam should align with the hole on the Pinch Speed Down Gear as shown in Figure M57.
2. Install the Pressure Roller Unit. Make sure the seats perfectly onto the Pinch Cam, then install the Pinch Cam Cap.

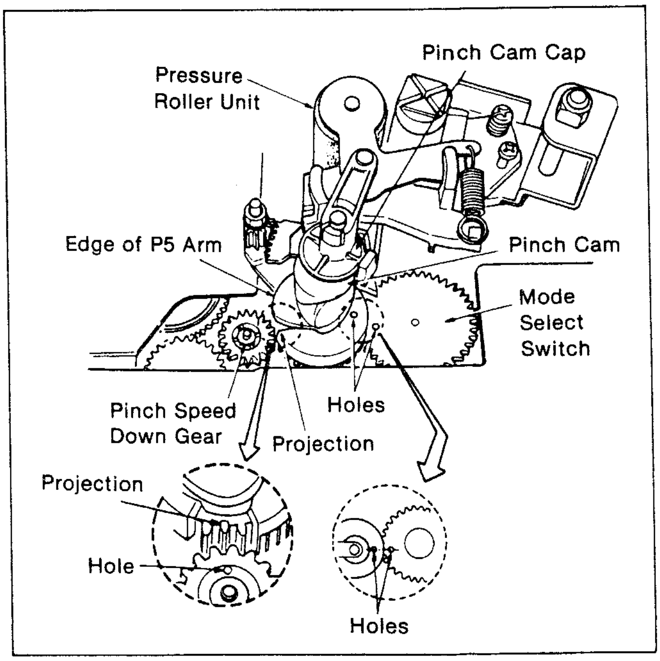

Pinch Cam Cap
Pressure Roller Unit
Edge of P5 Arm
Pinch Cam
Mode Select Switch
Pinch Speed Down Gear
Holes
Projection
Projection
Hole
Holes

Figure M57

4-4-11. ASSEMBLY PROCEDURES OF GEAR BASE UNIT

1. Install the Gear Base Unit and screw 4 screws as shown in Figure M58.

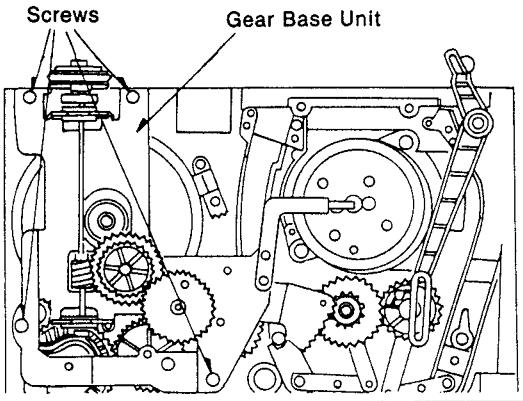


Figure M58

<<NOTE>>
The Gear Base Unit has 2 gears and wormshaft. There is no adjustment for these gears.

4-4-12. REINSTALLATION OF CASSETT COMPARTMENT

When you reinstall the cassette compartment, the position adjustment of mechanism is necessary for correct operation, as follows.

A. Confirmation of STOP Alignment Condition

1. Turn the Wormshaft counter-clockwise or clockwise until mechanism is placed into the Alignment Condition as following conditions.
    a) Identification hole on the Mode Select Switch at 6 oclock position and aligned with small hole on Pinch Cam. (Figure M57)
    b) P5 Arm is completely loading position and the Inclined Base (S) and (T) are completely unloading position.
    c) Small hole on Sub Cam Gear should align with small hole on the Connection Gear (Figure M55) and rectangular mark on the Connection Gear should be at a 3 oclock position.
    d) Pressure Roller Unit is UP position.

B. Confirmation of Cassette Compartment

1. Confirm that the Cassette Compartment is aligned properly. In the EJECT position (Cassette Holder up and advanced to the front) the two V-shaped marks on the slide switch should align. The slide switch is located on the right side of the Cassette Assembly towards the rear as shown in Figure M59.

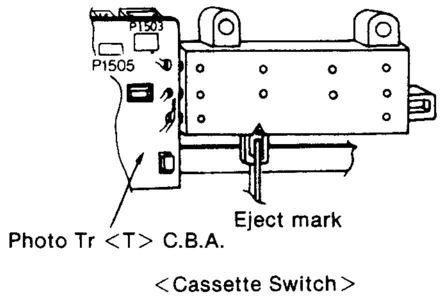


Figure M59

2. Remove 3 screws (A) as shownin Figure M60.
3. Take the top plate out.
4. Take the cassette Holder unit out as shown in Figure M61.

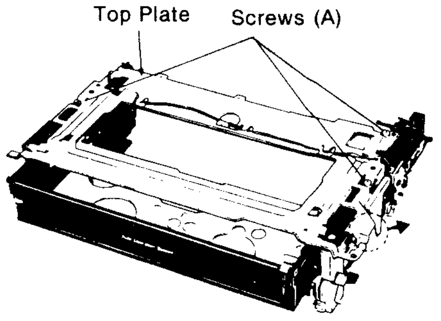


Figure M60

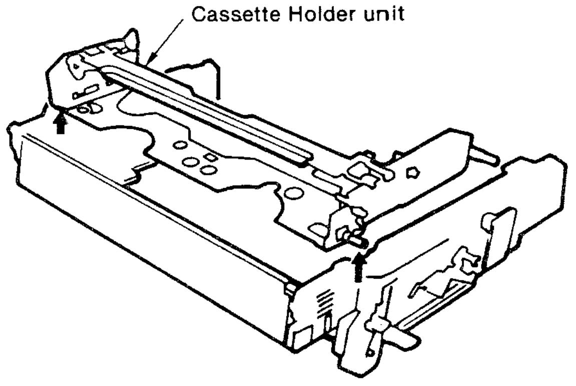


Figure M61 Removal of cassette holder unit

5. Press the sub wiper arm (R) to direction indicated by arrow so that the sub wiper arm (R) comes to cassette down position (STOP) completelyas shown in Figure M62 and keepit.
   In this position, the arrow on the Sub Wiper Arm (R) should align with the arrow on the Rack (A)(1) Unit as shown in Figure M63.

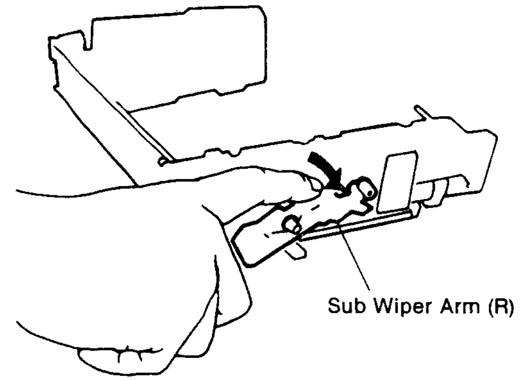

Sub Wiper Arm (R)

Figure M62

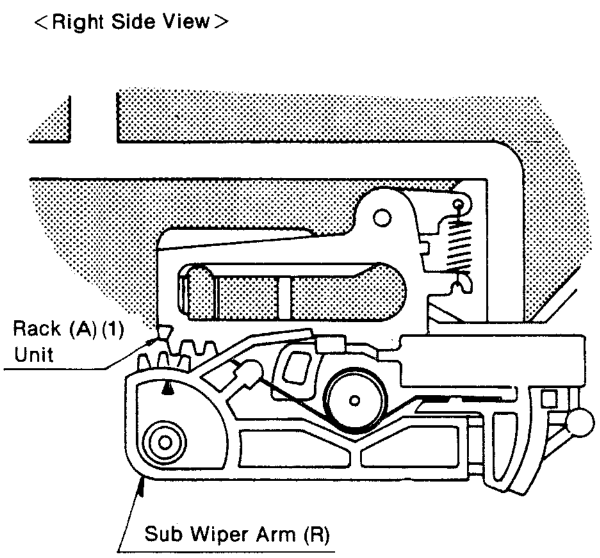

<Right Side View>
Rack (A)(1) Unit
Sub Wiper Arm (R)

Figure M63

6. If the Cassette Compartment is not aligned, re-alignment may be accomplished by pushing the Main Shaft Unit to the right (gently) and pushing the front of the Rack Unit to the left. This procedure will disengage the teeth of the Rack Gear from the teeth on Sub Wiper Arm assembly. This will allow you to change the positional relationship between the Sub Wiper Arm Assembly and Rack Unit. This procedure is best attempted in the EJECT position. Once this is done, check for smooth operation of the compartment by inserting a cassette, and pushing in, and down.

C. Installation Procedure

1. Bring loading mechanism to the STOP (Sub-load) position.
2. Confirm that the chassis is aligned properly for Alignment Condition as shown in Figure M46 and M47.
3. Put the Sub Wiper Arm (R) in its full down position (Sub Wiper Arm should rest on plastic protrusion on the bottom of the right side plate).
4. Install the cassette compartment (without cassette holder) to chassis so that the rectangular marking (or slot) on the connection gear should be line up with first tooth of the Rack Gear as shown in Figure M64 and M65.

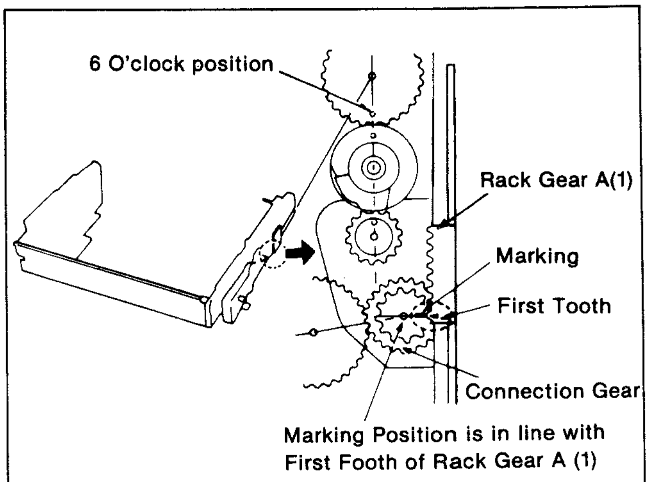

6 O'clock position
Rack Gear A(1)
Marking
First Tooth
Connection Gear
Marking Position is in line with
First Footh of Rack Gear A (1)

Figure M64

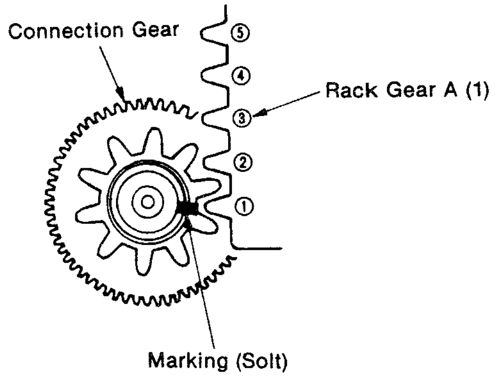

Connection Gear
⑤
④
Rack Gear A (1)
③
②
①
Marking (Solt)

Figure M65

5. Tighten the 4 screws (D) as shown in Figure M66.

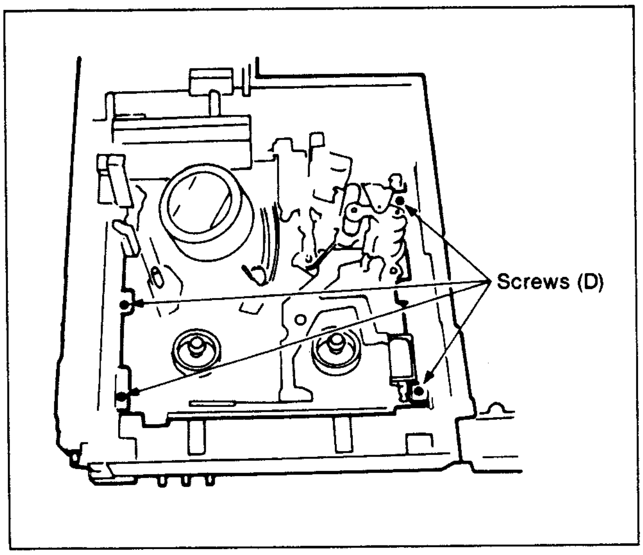


Figure M66

6. Manually move the loading mechanism toward the EJECT position.
7. Stop the manual eject procedure just before completion, so that the Sub Wiper Arms straight up. This position is also characterized by the channel guides (in the Wiper Arms) being directly under the cut outs on the top of the Cassette Compartment base(Figure M67).
8. Install the Cassette Holder Unit in the Cassette Compartment Base. The Cassette Holder should drop into place if the Sub Wiper Arms are portioned as called for in step 7.

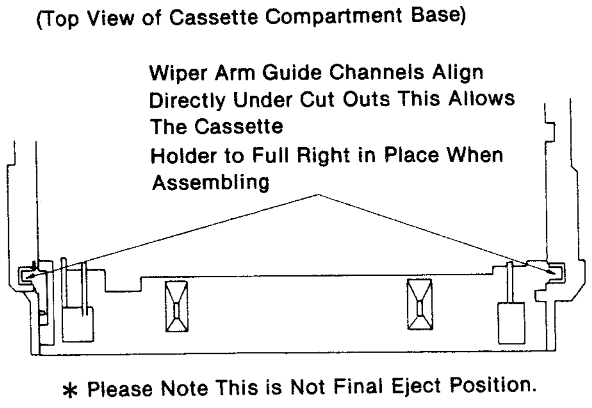

(Top View of Cassette Compartment Base)
Wiper Arm Guide Channels Align Directly Under Cut Outs This Allows The Cassette Holder to Full Right in Place When Assembling
* Please Note This is Not Final Eject Position.

Figure M67

<<NOTE>>
For proper front loading, the guide pin on the opener lever should follow the upper track of the right side panel as shown in Figure M68.

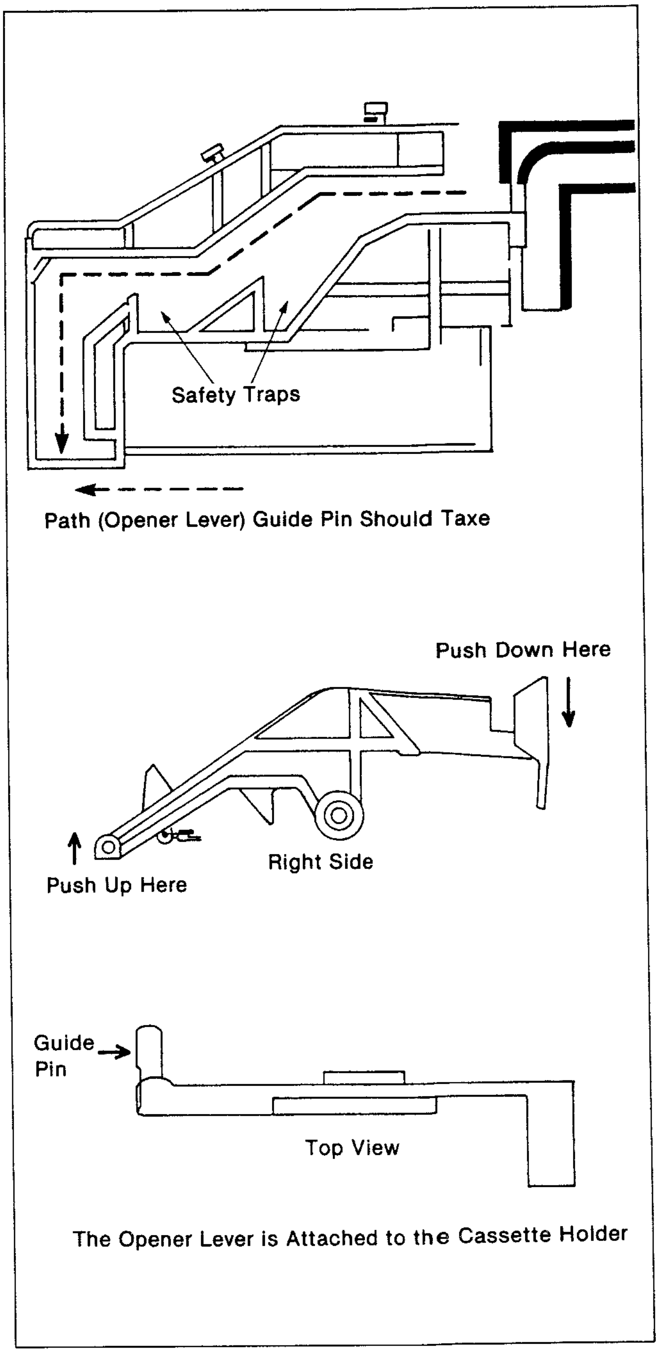

Safety Traps
Path (Opener Lever) Guide Pin Should Taxe
Push Down Here
Push Up Here
Right Side
Guide Pin
Top View
The Opener Lever is Attached to the Cassette Holder

Figure M68 Right Side Plate

9. Install the top plate on the Cassette Compartment Base and tighten the 2 screws (A) as shown in Figure M60.
10. Manually confirm that front loading and main loading run smoothly. Also confirm EJECT before power is applied.

Section 5

ELECTRICAL ADJUSTMENTS

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This section provides complete electrical adjustment procedures which may be required for electrical circuits of S-VHS video cassette recorder AG-7355.

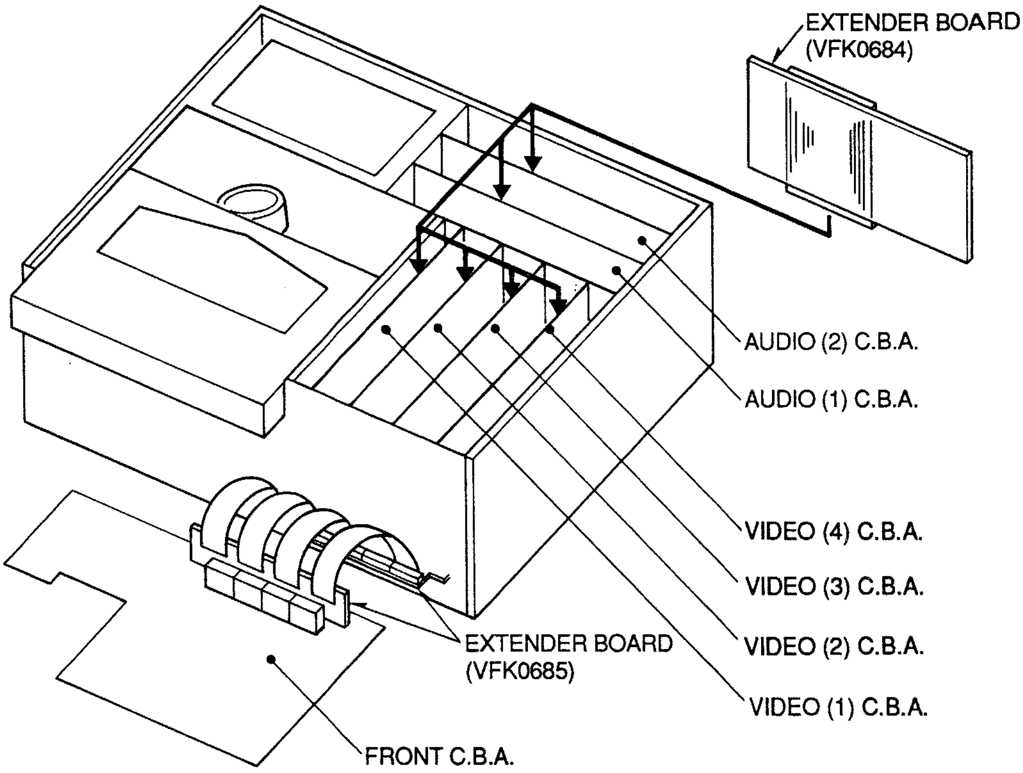
5-1. TEST EQUIPMENT

To perform the electrical adjustments completely, following equipments are required.

1. VTVM (Vacuum Tube Volt Meter) or DVM (Digital Volt Meter)
   Voltage range : 0.001 to 50V
2. Dual-Trace Oscilloscope
   Voltage Range : 0.005 to 50V/div
   Frequency Range : DC to 400MHz
   Probes : 10 : 1 and 1 : 1
3. Frequency Counter
   Frequency Range : 0 to 10MHz
4. Signal Generator (Sinewave)
   Frequency Range : 0 to 500KHz
5. Video Sweep Generator
   Frequency Range : 0 to 10MHz
6. Composite Signal Generator
   Output : Color Bar, Multi Burst, Sin 2T Pulse & Bar etc ...
7. Spectrum Analyzer
8. Color Monitor TV
9. VHS Alignment Tape (VFM8080HQFP)
10. S-VHS Blank Tape
11. VHS Blank Tape
12. Extender (VFK0684) for Mother board checking
13. Extender (VFK0685) for Front board checking

5-2. SERVICE INFORMATION

5-2-1. How to use the extender boards (VFK0684, VFK0685)


EXTENDER BOARD (VFK0684)
AUDIO (2) C.B.A.
AUDIO (1) C.B.A.
VIDEO (4) C.B.A.
VIDEO (3) C.B.A.
EXTENDER BOARD (VFK0685)
VIDEO (2) C.B.A.
VIDEO (1) C.B.A.
FRONT C.B.A.

5-3. ADJUSTMENT PROCEDURES

5–3–1. How to read the adjustment procedures

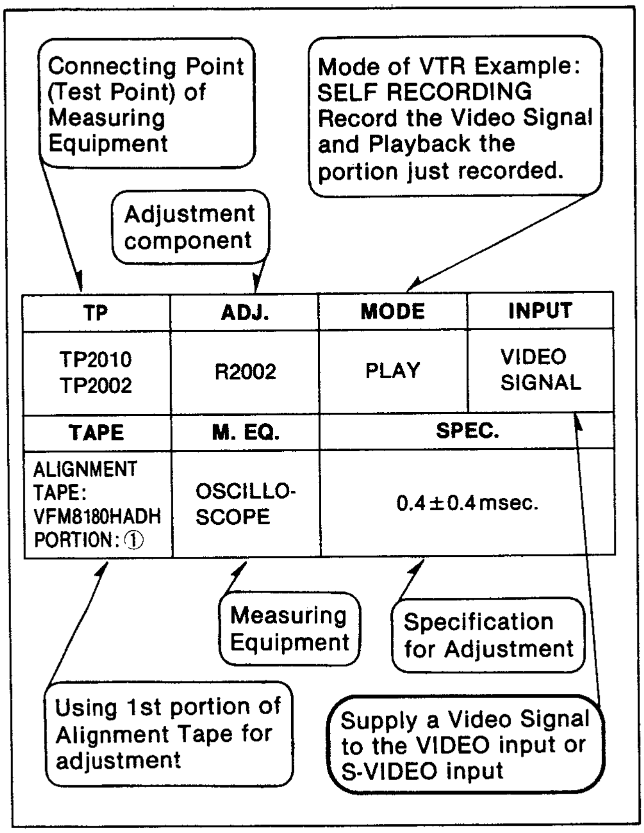

Connecting Point (Test Point) of Measuring Equipment
Mode of VTR Example: SELF RECORDING Record the Video Signal and Playback the portion just recorded.
Adjustment component
TP
ADJ.
MODE
INPUT
TP2010
TP2002
R2002
PLAY
VIDEO SIGNAL
TAPE
M. EQ.
SPEC.
ALIGNMENT TAPE: VFM8180HADH PORTION: ①
OSCILLO-SCOPE
0.4±0.4msec.
Measuring Equipment
Specification for Adjustment
Using 1st portion of Alignment Tape for adjustment
Supply a Video Signal to the VIDEO input or S-VIDEO input

Figure E1

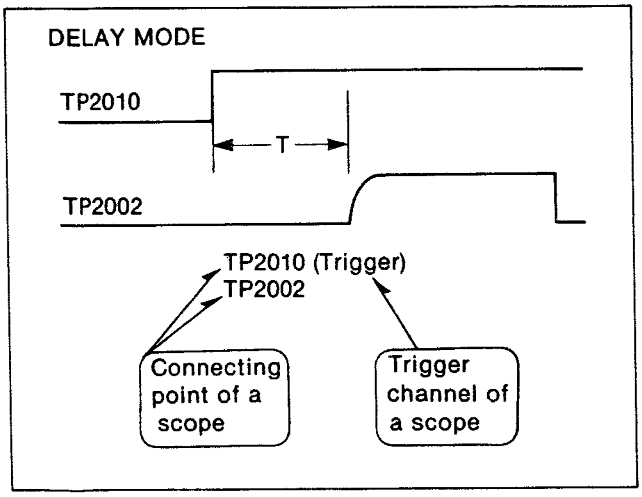

DELAY MODE
TP2010
T
TP2002
TP2010 (Trigger)
TP2002
Connecting point of a scope
Trigger channel of a scope

Figure E2

5–3–2. Standard set–up conditions

Unless otherwise specified, the selection switches and on–screen mode should be set as the following conditions.

1. Normal/Hi–Fi Audio Input level VRs (CH1/CH2) ... Center Fix position
2. S–VHS Select ... ON position (On–Screen setting)
3. Tracking Control VR ... Centre Fix position
4. Slow Tracking VR ... Centre Fix position
5. Video Mode ... Auto mode (On–Screen setting)
6. Norm/Hi–Fi SW ... Norm mode
7. Dolby NR ... OFF mode (On–Screen setting)
8. TV System ... PAL position

Note: Unless otherwise specified, a video signal should be supplied to BNC video input connector (not S–VIDEO input connector).

SERVO SECTION

5–3–3. PAL PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2201 (H. SW) VIDEO OUT	VR2201	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
VFM8180HADH PORTION: ②	OSCILLO-SCOPE	6.5H±0.5H	

Note: Tape interchangeability adjustment should be always completed before this adjustment.

1. Set the TV system switch to the PAL position.
2. Play back the PAL alignment tape at the portion 2.
3. Connect the oscilloscope to the video output for CH–1 and TP2201 for CH–2.
4. Adjust VR2201 for 6.5H +/–0.5H as shown in Figure E3.

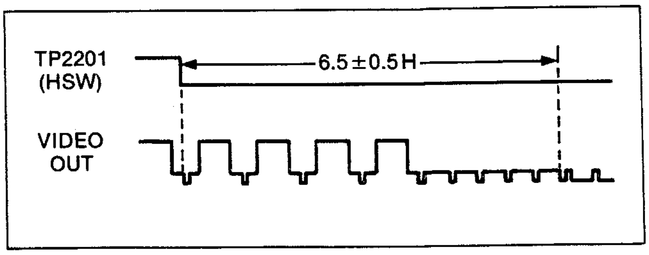

TP2201 (HSW)
6.5±0.5H
VIDEO OUT

Figure E3.

5. Change the triggering slope of the oscilloscope form "–" to "+" side, and confirm that the difference between the rising and falling edges become less than 20 usec.

5-3-4. NTSC PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2201 VIDEO OUT	VR2203	NTSC PLAY	
TAPE	**M. EQ.**	**SPEC.**	
VFM8080HQFP PORTION:②	OSCILLO- SCOPE	6.5H±0.5H	

Note: Tape interchangeability adjustment should be always completed before this adjustment.

1. Set the TV system switch to the NTSC position.
2. Play back the NTSC alignment tape at the portion 2.
3. Connect the oscilloscope to the video output for CH1 and TP2201 for CH2.
4. Adjust VR2203 for 6.5H +/− 0.5H as shown in Figure E4.
5. Change the triggering slope of the oscilloscope from "−" to "+" sided, and confirm that the difference between the rising and falling edges become less than 20 usec.

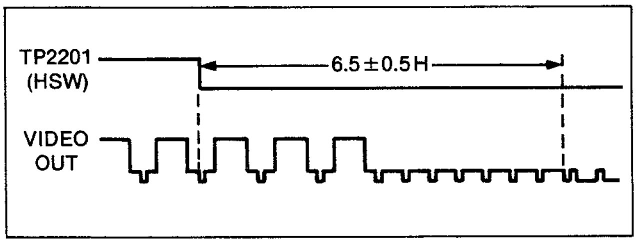


Figure E4

5-3-5. TRACKING FIX ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2201 (H.SW) TP2202 (CTL)	VR2207	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
VFM8180HADH PORTION:②	OSCILLO- SCOPE	T=0.4±0.4msec	

Note: Tape interchangeability adjustment should be always completed before this adjustment.

1. Play back the alignment tape at the portion 2.
2. Connect the oscilloscope to TP2201 for CH−1 and TP2202 for CH−2.
3. Adjust VR2207 for 0.4 +/−0.4 msec as shown in Figure E5.

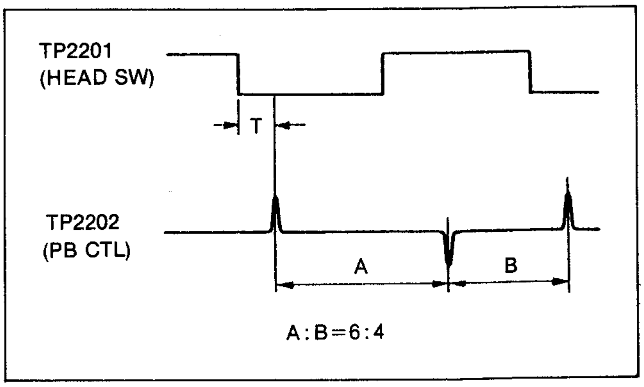


Figure E5.

5-3-6. SLOW FREE RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2203	VR2208	PAL SLOW	
TAPE	**M. EQ.**	**SPEC.**	
VFM8180HADH PORTION:②	FREQ COUNTER	f=458Hz±10Hz	

1. Playback the alignment tape at the portion 2 and place the unit in slow mode.
2. Connect the jumper wire between TP2204 and GND.
3. Connect the frequency counter to TP2203.
4. Adjust VR2208 so that the reading of frequency counter is 648Hz +/−10Hz.
5. After this adjustment, remove the jumper wire from TP2204 and GND.

5-3-7. FORWARD SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2201 (H. SW) TP3004	VR2205	PAL SLOW PLAY	MONOSCOPE
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO- SCOPE	ENVELOPE LEVEL: A=B	

1. Record the monoscope signal for a few minute and play back the just recorded portion in the slow mode.
2. Connect the oscilloscope to TP3004 for CH−1 (which triggered with H.SW signal).
3. Adjust VR2205 so that the RF envelope becomes the same level between A and B portions as shown in Figure E6.

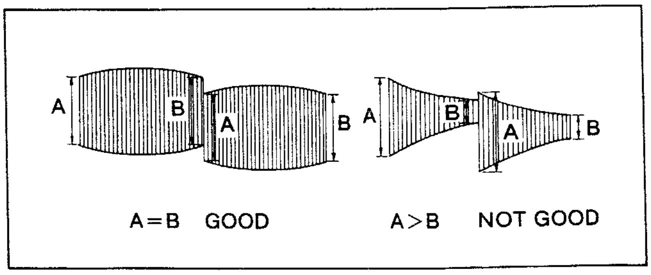


Figure E6.

5–3–8. REVERSE SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2201 (H. SW) TP3004	VR2206	PLA REVERSE SLOW	MONOSCOPE
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	ENVELOPE LEVEL: A=B	

1. Record the monoscope signal for a few minute and playback the just recorded portion in the reverse slow mode.
2. Connect the oscilloscope to TP3004 for CH–1 (which triggered with H.SW signal).
3. Adjust VR2206 so that the RF envelope becomes the same level between A and B portions as shown in Figure E7.

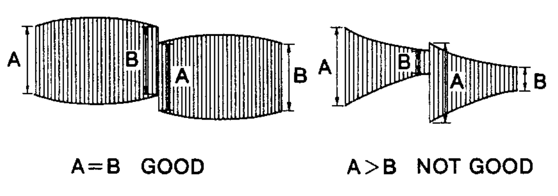


Figure E7

5–3–9. PAL V–LOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2202	PAL STILL	
TAPE	**M. EQ.**	**SPEC.**	
VFM8180HADH PORTION: ②	TV MONITOR	NO V-DANCING	

1. Play back the PAL alignment tape at the portion 2 in the still mode.
2. Adjust VR2202 so that the V–dancing does not appear on the monitor screen.
3. Confirm that the no V–dancing is appeared on the monitor screen while slowly turning Jog dial on the front panel after completing this adjustment.

5–3–10. NTSC V–LOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2202	NTSC STILL	MONOSCOPE
TAPE	**M. EQ.**	**SPEC.**	
VFM8080HQFP PORTION: ②	TV MONITOR	NO V-DANCING	

1. Play back the NTSC alignment tape at the portion 2 in the still mode.
2. Adjust VR2204 so that the V–dancing does not appear on the monitor screen.
3. Confirm that the no V–dancing is appeared on the monitor screen while slowly turning Jog dial on the front panel after completing this adjustment.

VIDEO 1, 2, 3 SECTION

5–3–11. AGC LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR3501	STOP	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	1.0Vp-p±0.02V	

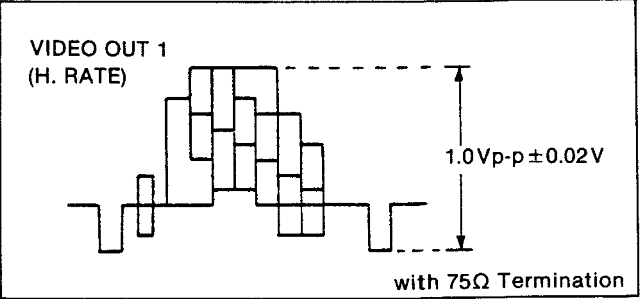


Figure E8

5–3–12. On–Screen Display H POSITION ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3502	C3586	STOP	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	TV MONITOR	DOLBY NR OFF=ON MAGENTA	

1. Supply a colour bar signal to the video input connector.
2. Place the unit in the E–E mode and push the "screen display" button to monitor the colour bar with on–screen characters.
3. Adjust C3586 so that the character of "OFF" for DOLBY NR is positioned as shown in Figure E9.

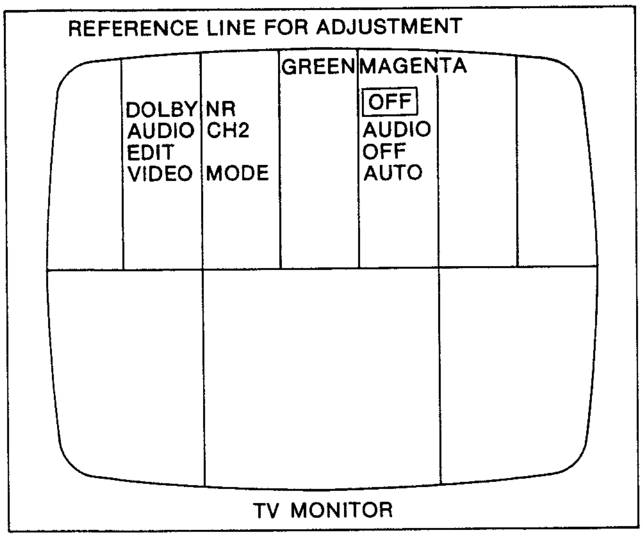

REFERENCE LINE FOR ADJUSTMENT
DOLBY
AUDIO
EDIT
VIDEO
NR
CH2
MODE
GREEN
MAGENTA
OFF
AUDIO
OFF
AUTO
TV MONITOR

Figure E9

5–3–13. VHS DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3003	VR8004	PAL VHS RECORDING	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	INNERBEAT IS MINIMUM AS POSSIBLE	

1. Supply a color bar signal to the video input on the rear panel.
2. Set the signal generator (sine wave) frequency and output as follows and supply it to TP3006.

   Frequency : 3.8MHz+–0.05MHz
   Output : 50mVp–p – 100mVp–p

3. Connect the oscilloscope to TP3006.
4. Place the unit in the recording mode.
5. Adjust VR8004 so that the inner beat at the white portion of the colour bar becomes minimum as possible as shown in Figure E10.

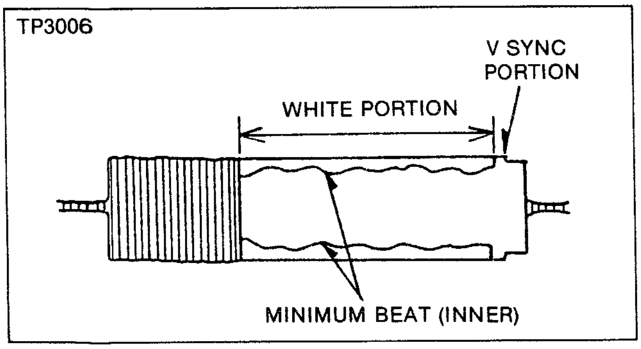

TP3006
V SYNC PORTION
WHITE PORTION
MINIMUM BEAT (INNER)

Figure E10

5–3–14. S–VHS DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3003	VR3003	PAL S-VHS RECORDING	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO-SCOPE	INNERBEAT IS MINIMUM AS POSSIBLE	

Note: This adjustment should be always completed after completing the VHS Deviation adjustment.

1. Set the unit in the S–VHS mode.
2. Supply the colour bar signal to video input on the rear panel.
3. Connect the signal generator (Sine wave) to TP3006 and set the frequency and output level as follows.

   Frequency : 5.4MHz+/–0.05MHz
   Output : 50mVp–p – 100mVp–p

4. Connect the oscilloscope to TP3006.
5. Place the unit in the recording mode.
6. Adjust VR3003 so that the inner beat at white portion of the colour bar becomes minimum as possible as shown in Figure E11.

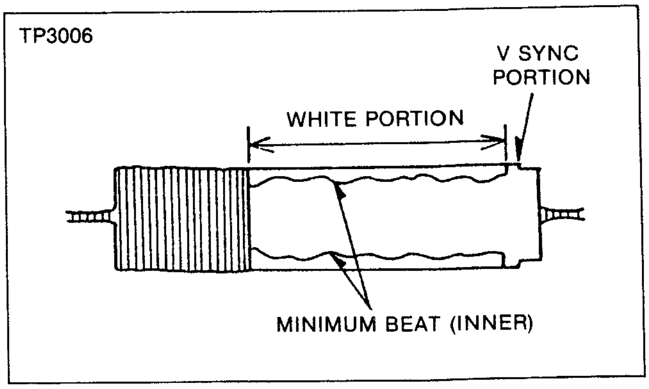

TP3006
V SYNC PORTION
WHITE PORTION
MINIMUM BEAT (INNER)

Figure E11

5-3-15. YNR BALANCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP8003	VR8003	PAL STOP	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	LESS THAN 50mVp-p	

1. Supply a colour bar signal to the video input on the rear panel.
2. Connect the oscilloscope to TP8003.
3. Adjust VR8003 so that the waveform becomes minimum as possible (less than 50mVp–p) as shown in Figure E12.

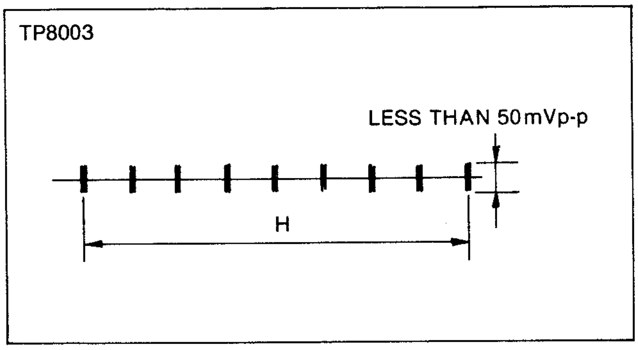


Figure E12

5-3-16. S-VHS RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP5003 (HOT) TP5002 (GND)	VR5002 (C) VR5001 (Y)	PAL S-VHS RECORDING	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO-SCOPE	35mVp-p±2mV (C) 150mVp-p±10mV (Y)	

1. Supply a colour bar signal to the video input.
2. Place the unit in the S–VHS recording mode.
3. Connect the oscilloscope to TP5003 (HOT) and TP5002 (GND).
4. Before chrominance recording current adjustment, luminance recording current (VR5001) should be closed to observe the chrominance signal.
   (In another way, the luminance current can be closed by making the short circuit between TP3007 and TP3006)
5. Adjust VR5002 so that the cyan level is 35 +/– 2mVp–p as shown in Figure E13.

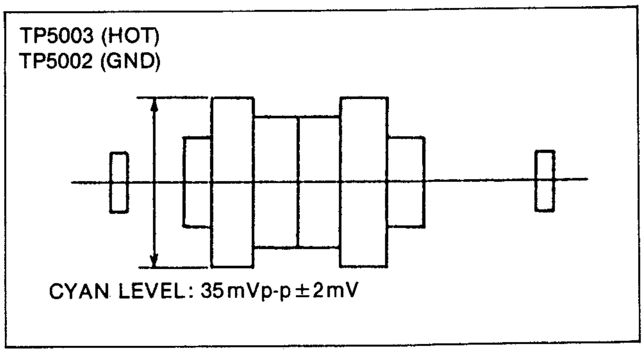


Figure E13

6. Next, adjust VR5001 so that the luminance signal level is 150 +/– 10mV p–p as shown in Figure E14.

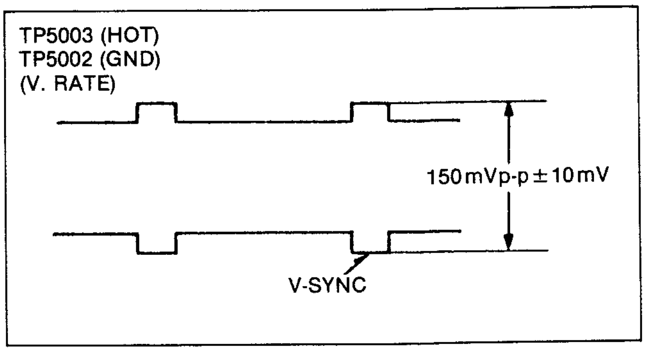


Figure E14

5-3-17. VHS Y RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP5003 (HOT) TP5002 (GND)	VR3002	PAL VHS RECORDING	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	150mVp-p±10mV	

Note: This adjustment should be always completed after the S–VHS recording current

1. Supply the colour bar signal to video input.
2. Place the unit in the normal VHS recording mode.
3. Connect the oscilloscope to TP5003 (HOT) and TP5002 (GND).
4. Adjust VR3002 so that the luminance signal level is 150 +/– 10mVp–p as shown in Figure E15.

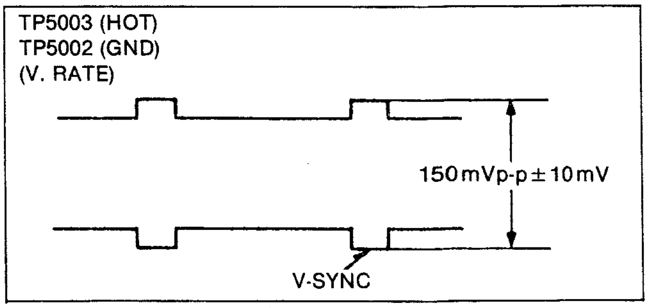


Figure E15

5-3-18. VHS Y PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUTPUT 1	VR3503	PAL VHS PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELFE RECORDED TAPE	OSCILLO-SCOPE	1.0Vp-p±0.02V	

Note: This adjustment should be always completed after completion of all adjustment on the recording loop.

1. Supply a colour bar signal to the video input and recording it in the normal VHS mode for a few minute.
2. Connect the oscilloscope to the video output 1 with 75ohm termination.
3. Playback the just recorded portion.
4. Adjust VR3503 for 1.0 +/−0.02Vp−p as shown in Figure E16.

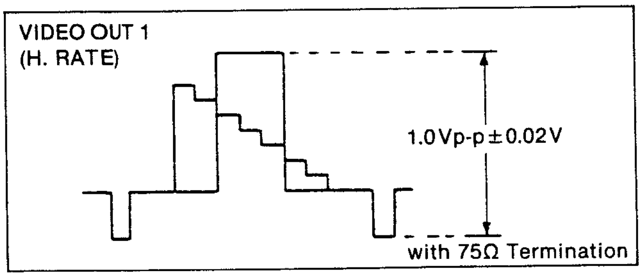


Figure E16

5-3-19. Y PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR8010	PAL PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	1.0Vp-p±0.02V	

Note: This adjustment should be always completed after the VHS Y playback level adjustment.

1. Supply a colour bar signal to the video input and record it for a few minute.
2. Play back the just recorded portion.
3. Connect the oscilloscope to the video out 1 connector with a 75ohm termination.
4. Adjust VR8010 for 1.0 +/−0.02Vp−p as shown in Figure E17.

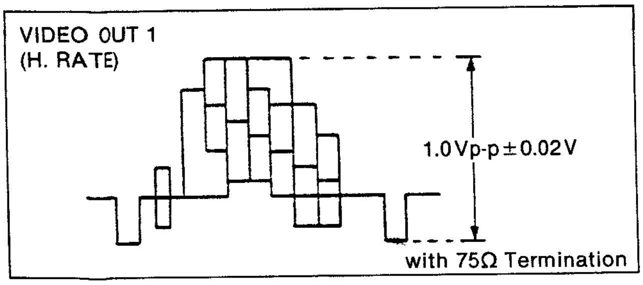


Figure E17

5-3-20. PLAYBACK SUB EMPHASIS INPUT LEVEL ADJUSTMENT AG-7350)

TP	ADJ.	MODE	INPUT
TP3005	VR3001	PAL PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	400mVp-p±10mV	

Note: This adjustment should be always completed after completion of all adjustments on the recording loop.

1. Supply a colour bar signal to the video input and record it for a few minute.
2. Play back the just recorded portion.
3. Connect the oscilloscope to TP3005.
4. Adjust VR3001 for 400 +/−10mVp−p as shown in Figure E18.

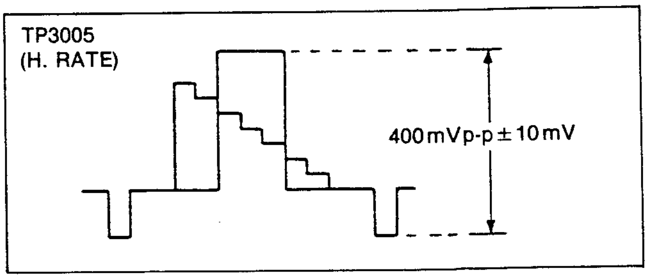


Figure E18

5-3-21. S-VHS PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR3004	PAL S-VHS PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	1.0Vp-p±0.02V	

Note: This adjustment should be always completed after the playback sub emphasis input level adjustment.

1. Supply a colour bar signal to video input and record it for a few minute.
2. Connect the oscilloscope to the video out 1 connector with a 75ohm termination.
3. Adjust VR3004 for 1.0 +/−0.02Vp−p as shown in Figure E19.

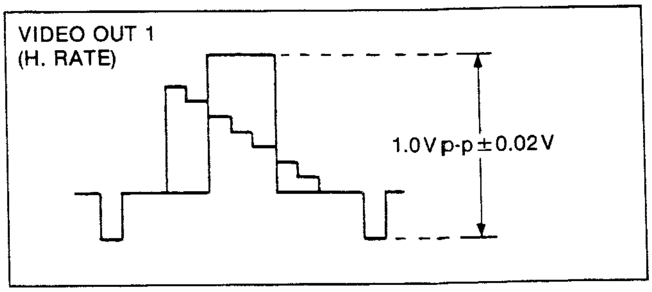
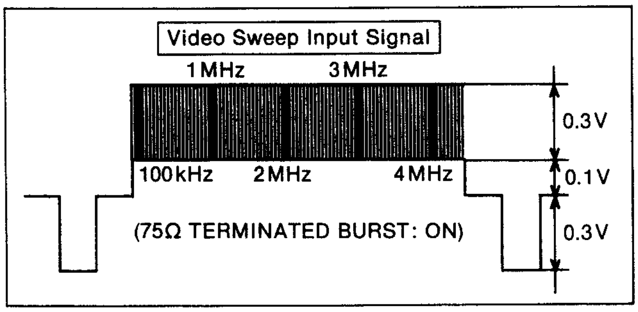


Figure E19

5–3–22. VHS PLAYBACK FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR3005	PAL VHS PLAY	30% SWEEP WITHOUT BURST
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	100kHz: 2MHz=5: 5±0.5	

1. Set the video mode to the "B/W" mode on the on–screen setting menu.
2. Set the sweep generator output as shown in Figure E20.


Video Sweep Input Signal
1MHz
3MHz
100kHz
2MHz
4MHz
0.3V
0.1V
0.3V
(75Ω TERMINATED BURST: ON)

Figu re E20

3. Supply the 30% sweep signal without burst signal to the video input and record it for a few minute.
4. Play back the just recorded portion.
5. Connect the oscilloscope to the video out 1 connector.
6. Adjust VR3005 so that the playback frequency response becomes the ratio of 100 : 100 +/–10 at the marker points of 100KHz and 2MHz as shown in Figure E21.

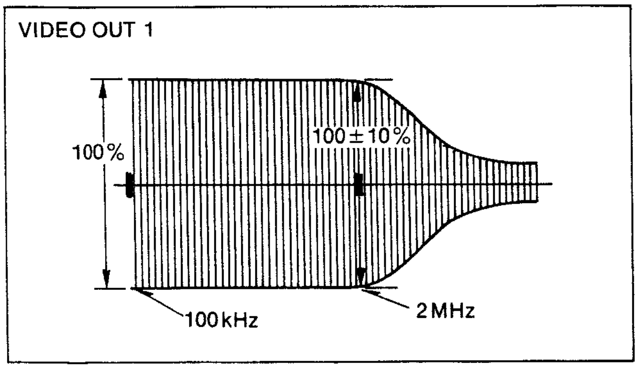

VIDEO OUT 1
100%
100±10%
100kHz
2MHz

Figure E21

5–3–23. S–VHS PLAYBACK FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR3007	PAL S-VHS PLAY	30% SWEEP WITHOUT BURST
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	100kHz: 4MHz=100: 60±10	

1. Set the video mode to the "B/W" mode on the On–Screen setting menu.
2. Set the sweep generator output as shown in Figure E22.
3. Supply the 30% sweep signal with burst signal to the video input and record it for a few minute.
4. Play back the just recorded portion.
5. Connect the oscilloscope to the video out 1.
6. Adjust VR3007 so that the playback frequency response becomes the ratio of 100 : 60 +/–10 at the marker points of 100KHz and 4MHz as shown in Figure E23.

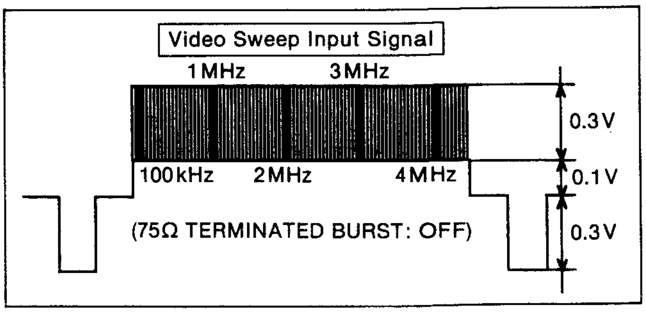

Video Sweep Input Signal
1MHz
3MHz
100kHz
2MHz
4MHz
0.3V
0.1V
0.3V
(75Ω TERMINATED BURST: OFF)

Figure E22

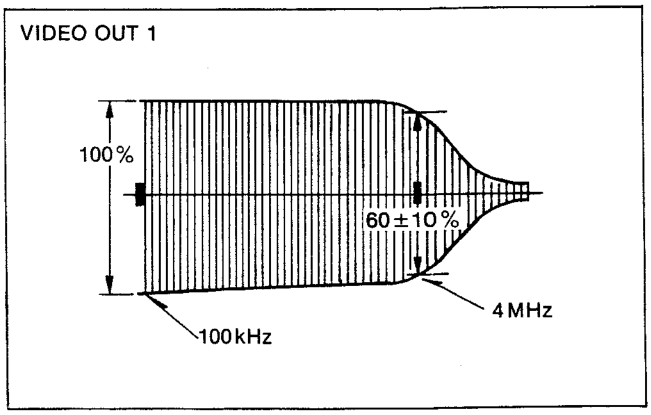

VIDEO OUT 1
100%
60±10%
4MHz
100kHz

Figure E23

5-3-24. TRACKING LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TRACKING METER	VR3008	PAL PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED		0dB±0.5dB	

Note: Make sure that the tracking volume is set to centre fix position.

1. Supply a colour bar signal to the video input and record it for a few minute.
2. Play back the just recorded portion.
3. Adjust VR3008 so that the tracking meter indicates 0dB +/−0.5dB as shown in Figure E24.

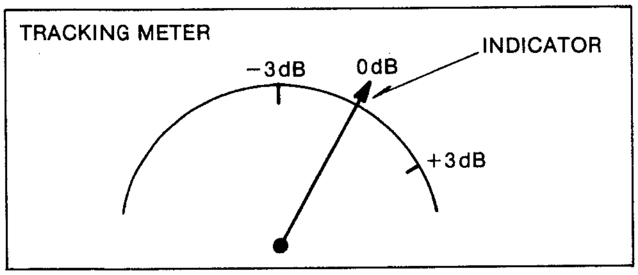


Figure E24

5-3-25. S-VHS SUPER LIMITER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3006	VR3006	PAL S-VHS STOP	SINEWAVE (7MHz, 200mVp-p)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR OSCILLOSCOPE	300mVp-p±10mV	

Note: Prepare a 100MHz type oscilloscope.

1. Set the signal generator (sine−wave) to 7MHz, 200mVp−p and supply it to TP3007 on the video (1) C.B.A.
2. Connect the 100MHz type oscilloscope to TP3006.
3. Adjust VR3006 for 300 +/−10mVp−p as shown in Figure E25.

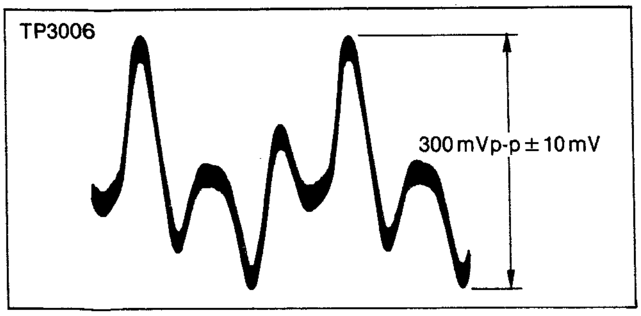


Figure E25

3-5-26. PLAYBACK CHROMA LEVEL ADJUSTMENT 1

TP	ADJ.	MODE	INPUT
TP8005	VR8001	PAL PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	500mV±10mVp-p	

1. Supply a colour bar signal to the video input and record it for a few minute.
2. Play back the just recorded portion.
3. Connect the oscilloscope to TP8005.
4. Adjust VR8001 for 500m +/− 10mVp−p at the cyan portion as shown in Figure E26.

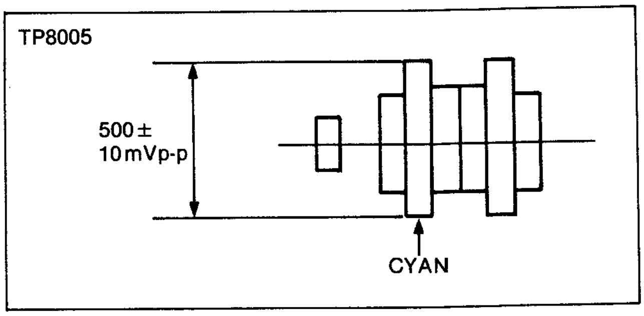


Figure E26

5-3-27. CNR ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP8002	VR8005 VR8006	PAL PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	LESS THAN 500mVp-p	

Note: This adjustment should be always completed after YNR balance adjustment.

1. Supply a colour bar to the video input and record it for a few minute.
2. Connect the oscilloscope to TP8002.
3. Play back the just recorded portion.
4. Adjust VR8005 and VR8006 mutually so that the chroma signal is minimized as possible (less than 500mVp−p at least) as shown in Figure E27.

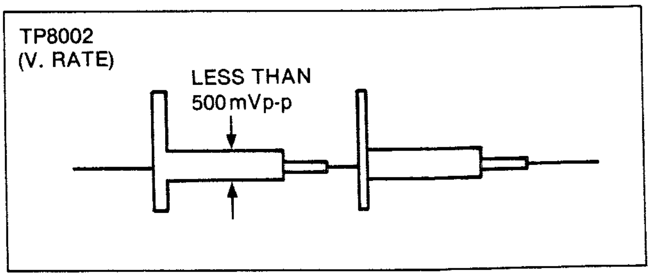


Figure E27

3-5-28. PLAYBACK CHROMA LEVEL ADJUSTMENT 2

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR8009	PAL PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	0.6Vp-p±0.03V	

1. Supply a colour bar signal to the video input and record it for a few minute.
2. Connect the oscilloscope to the video output 1 connector with 75ohm termination.
3. Adjust VR8009 for 0.6 +/− 0.03Vp−p as shown in Figure E28.

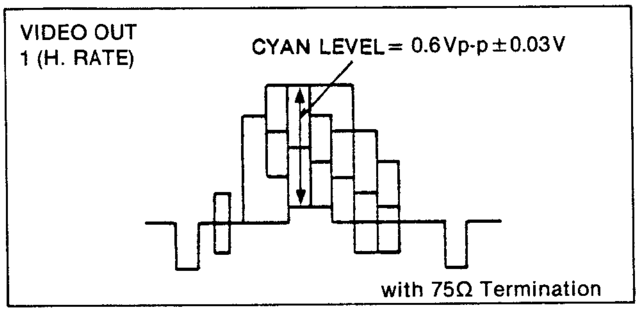


Figure E28

5-3-29. S-VHS Y/C DELAY ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR8007	PAL S-VHS PLAY	SIN² T PULSE & BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	WAVEFORM MONITOR	A=B±2%	

1. Supply the sin 2T pulse & bar signal and record it for a few minute.
2. Play back the just recorded portion.
3. Connect the waveform monitor to video out 1 connector.
4. Adjust VR8007 so that the waveform becomes as shown in Figure E29.

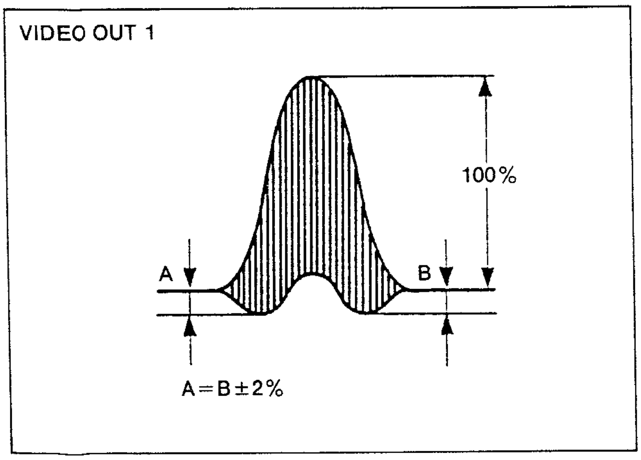


Figure E29

5-3-30. 2H DELAY LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR3502	PAL STILL	50% FLAT FIELD WHITE
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	WAVEFORM MONITOR	FLICKER IS MINIMIZED (0mVp-p±20mV)	

1. Supply a 50% flat field white signal to the video input and record it for a few minute.
2. Play back the just recorded portion in the still mode.
3. Connect the waveform monitor to the video output 1 connector.
4. Adjust VR3502 so that the flicker of luminance is minimized as possible as shown in Figure E30.

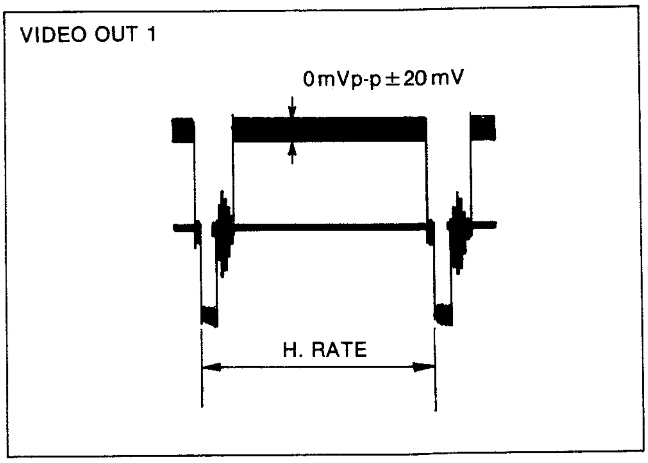


Figure E30

VIDEO 4 SECTION

5-3-31. ENCODER APC FREE-RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3905	VR3908	STOP	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	FREQUENCY COUNTER	4,433,619±500Hz	

1. Co not supply any signal to the video input.
2. Connect the frequency counter to TP3905 and adjust VR3908 so that the frequency is 4,433,619 +/− 500Hz.

5–3–32. AFC ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3903	VR3909	STOP	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	FREQUENCY COUNTER	15.625±0.3kHz	

1. Do not supply any signal to the VIDEO input.
2. Connect the frequency counter to TP3903 and adjust VR3909 so that the frequency is 15.625 +/− 0.3KHz.

5–3–33. A/D Y OUT PUT ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUTPUT	VR3903	PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
COLOUR BAR S-VHS SELF RECORDED TAPE	OSCILLO-SCOPE	1.0±0.02Vp-p	

Note: The AGC level adjustment should be completed before this adjustment.

1. Prepare a colour bar self recorded tape and play back it.
2. Connect the oscilloscope CH1 to the VIDEO OUTPUT with 75ohm termination.
3. Adjust VR3903 so that the VIDEO level is 1.0 +/− 0.02Vp-p as shown in Figure E31.

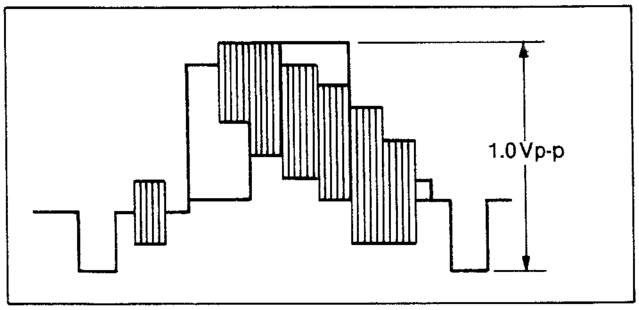


Figure E31

5–3–34. APC ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3902	VR3901	PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
COLOUR BAR S-VHS SELF RECORDED TAPE	OSCILLO-SCOPE	AS SHOWN IN FIGURE E32	

1. Prepare a colour bar self recorded tape and play back it.
2. Connect the oscilloscope to TP3902 and expand the burst portion.
3. Adjust VR3901 so that the waveform of burst becomes as shown in Figure E32.

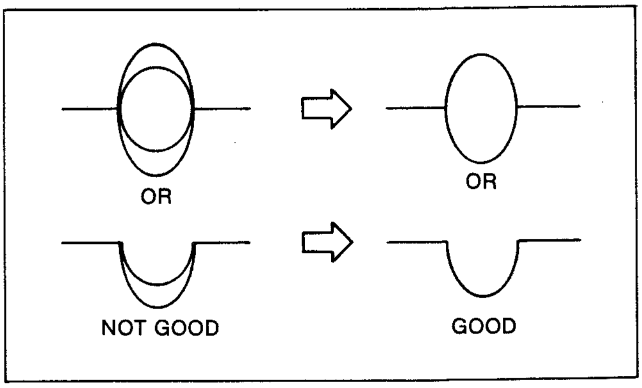


Figure E32

5–3–35. A/D C INPUT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3902	VR3902	PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
COLOUR BAR S-VHS SELF RECORDED TAPE	OSCILLO-SCOPE	1.4±0.1Vp-p	

1. Prepare a colour bar self recorded tape and play back it.
2. Connect the oscilloscope to TP3902 and adjust VR3902 so that the level of C component signal is 1.4 +/− 0.1Vp-p as shown in Figure E33.

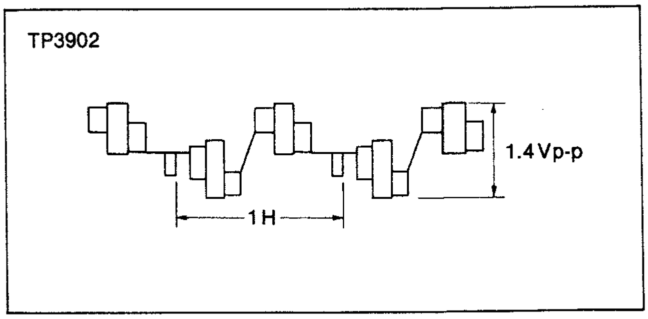


Figure E33

5-3-36. WHITE BALANCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUTPUT 1	VR3906 VR3907	DIGITAL STILL	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
COLOUR BAR S-VHS SELF RECORDED TAPE	VECTOR-SCOPE	VECTROR COMES CENTER	

1. Prepare a colour bar self recorded tape and play back it and place the unit in the digital still mode.
2. Connect the vectorscope to the video output 1 and adjust VR3906 and VR3907 mutually so that the close point of the vectors is at the centre point of the vectorscope as shown in Figure E34.

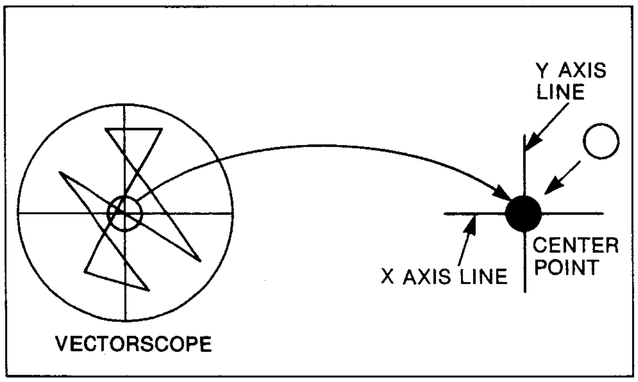


Figure E34

5-3-37. C BALANCE ADJUST

TP	ADJ.	MODE	INPUT
VIDEO OUTPUT	VR3904 VR4905	PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
COLOUR BAR SELF RECORDED TAPE	OSCILLO-SCOPE	AS SHOWN IN FIGURE	

1. Prepare a colour bar self recorded tape and play back it.
2. Connect the vector scope to the video output 1 on the rear panel.
3. Connect and disconnect a jumper wire between TP3911 and TPG3901 alternately.
4. Adjust VR3904 on the Main Video 4 C.B.A. so that the phase of the red vector is the same when the jumper wire is connected or disconnected as shown in Figure E35.
5. Adjust VR3905 on the Sub Video 4 C.B.A. so that the phase of the yellow vector is the same when the jumper wire is connected or disconnected as shown in Figure E35.

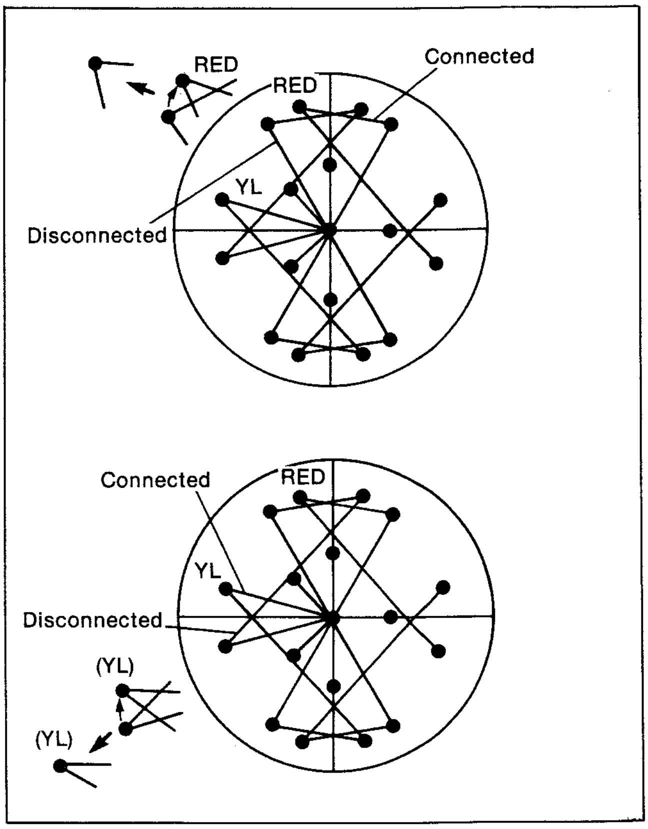


Figure E35

5-3-38. PLAYBACK CHROMA LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUTPUT 1	VR3905	DIGITAL STILL	
TAPE	**M. EQ.**	**SPEC.**	
COLOUR BAR S-VHS SELF RECORDED TAPE	WAVEFORM MONITOR	0.6±0.05Vp-p	

1. Prepare a colour bar self recorded tape and play back it and place the unit in the digital still mode.
2. Connect the oscilloscope to the VIDEO OUTPUT 1 with 75ohm termination and adjust VR3905 so that the cyan level at the chroma signal is 0.6 +/− 0.05Vp−p as shown in Figure E36.

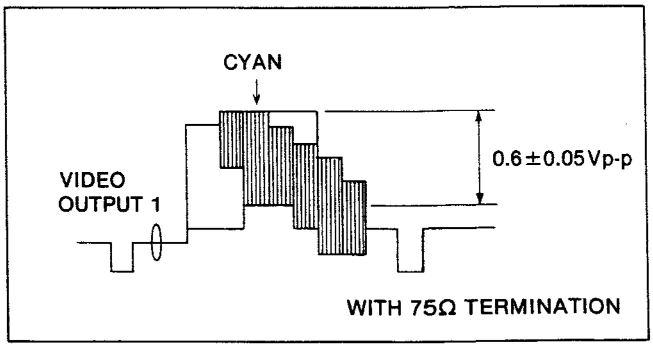


Figure E36

AUDIO SECTION

5-3-39. PREAMP LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
NORMAL AUDIO OUT (CH1, CH2) Hi-Fi AUDIO OUT (CH1, CH2)	VR4501, VR4502, VR4701, VR4702	PAL STOP	1kHz, −8dBv SINEWAVE
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M	NORMAL: −8dBv±0.2dBv Hi-Fi: −8dBv±2dBv	

1. Set the signal generator output to 1KHz, −8dBv and supply it to the Normal/Hi−Fi (CH1 & CH2) audio inputs and also supply the colour bar signal to the video input.
2. Set the Audio out SW to the NORM position. Adjust VR4501 (CH1) and VR4502 (CH2) for −8dBv +/−0.2dBv.
3. Set the Audio out SW to the Hi−Fi position. Adjust VR4701 (CH1) and VR4702 (CH2) for −8dBv +/−2dBv.

5-3-40. AUDIO METER ADJUSTMENT

TP	ADJ.	MODE	INPUT
AUDIO METERS CH1 CH2	VR4503 VR4504	PAL STOP	1kHz, −8dBv SINEWAVE
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	AUDIO METERS	NORMAL: 0Vu±0.5Vu Hi-Fi: 0Vu	

1. Set the signal generator output to 1KHz, −8dBv and supply it to the CH1/CH2 inputs and also supply a colour bar signal to the video input.
2. Set the Audio Output SW to the Hi−Fi.
3. Adjust VR4503 (CH1) and VR4504 (CH2) so that the CH1 and CH2 audio meters show 0VU.
4. Change the Audio output SW to the Normal.
5. Confirm that the audio meters show 0VU +/− 0.5VU.

5-3-41. NORMAL AUDIO PLAYBACK FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
NORM/Hi-Fi OUT (CH1/CH2)	VR4005 (CH1) VR4007 (CH2)	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
VFM8180HADH POSITON③	OSCILLO-SCOPE	400Hz=5kHz (+/− 0.5dB)	

Note: This adjustment should be always completed before the Normal Audio Playback Gain Adjustment.

1. Play back the alignment tape at portion 3.
2. Connect the oscilloscope to the NORM/Hi−Fi outputs (CH1/CH2) on the rear panel.
3. Adjust VR4005 (CH1) and VR4007 (CH2) so that the 400Hz and 5KHz levels become the same (0 +/−0.5dB) as shown in Figure E37.

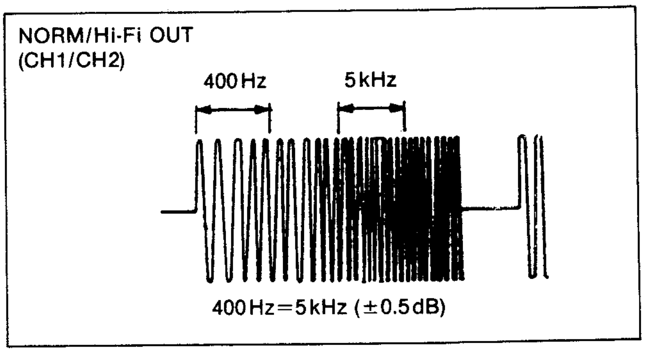


Figure E37

5-3-42. NORMAL AUDIO PLAYBACK GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
NORM/Hi-Fi OUT (CH1/CH2)	VR4006 (CH1) VR4008 (CH2)	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
1kHz, −8dBv RECORDED TAPE	OSCILLO-SCOPE	300mVp-p	

Note: This adjustment should be completed after completion of the Audio Meter Adjustment and Normal Audio Playback Frequency Adjustment.

1. Prepare the prerecorded tape which recorded a audio 1KHz, −8dBv signal on another unit such as AG−7350 and AG−7355.
2. Set the Audio out switch to the normal position.
3. Play back the above prerecorded tape and confirm that the audio CH1 and CH2 meters show on the front panel 0VU.
4. Connect the V.T.V.M. to the audio CH1 or CH2 output on the rear panel.
5. Adjust VR4006 (CH1) or VR4008 (CH2) so that the output level is −8dBv +/− 0.3dBv.

5-3-43. NORMAL AUDIO BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
A/C HEAD	VR4003 (S-VHS CH1) VR4009 (S-VHS CH2) VR4002 (VHS CH1) VR4004 (VHS CH2)	PAL VHS, S-VHS RECORDEING	
TAPE	**M. EQ.**	**SPEC.**	
S-VHS, VHS BLANK TAPE	V.T.V.M	S-VHS: 5.5±0.1mVrms VHS: 4±0.1mVrms	

1. Insert a S-VHS blank tape and place the unit in S-VHS recording mode.
2. Connect the V.T.V.M to the A/C Head as shown in Figure E38.
3. Adjust VR4003 (CH1) and VR4009 (CH2) for 5.5 +/-0.1mVrms.
4. Insert a VHS blank tape and place the unit in normal VHS recording mode.
5. Adjust VR4002 (CH1) and VR4004 (CH2) for 4 +/- 0.1mVrms.

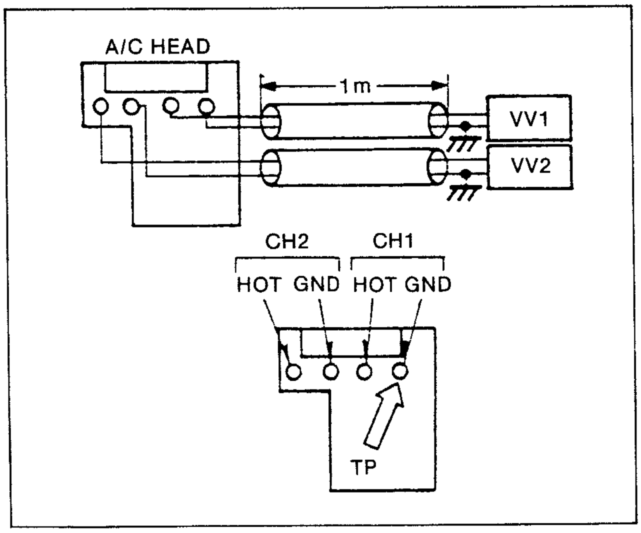


Figure E38

5-3-44. NORMAL AUDIO REC CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4007 (CH1), TP4012 (CH2) NORM/Hi-Fi OUT (CH1/CH2)	VR4010 (CH1) VR4011 (CH2)	PAL SELF RECORDING	1kHz, −8dBv SINEWAVE COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M	S-VHS: 0±0.5dBv VHS: 0±1.0dBv	

1. Insert a blank tape and place the unit in recording mode.
2. Connect two V.T.V.M.s as follow.

V.T.V.M.(1) : NORM/HI-FI CH1/CH2 OUTPUTS
V.T.V.M.(2) : TP4007(CH1) / TP4012(CH2)

3. Set the signal generator to 1KHz, -8dBv and supply it to the NORM/Hi-Fi Audio Input (CH1/CH2).
4. Pre-adjust VR4010 (CH1) and VR4011 (CH2) so that the reading of V.T.V.M (2) are approx. 400mVp-p.
   And it suppose the reading of V.T.V.M.(1) would be 0dBm in this time.
5. After this adjustment, record a colour bar and 1KHz, -8dBv sinewave signal for a few minute.
   And playback the just recorded portion and confirm that the audio level at the NORM/HI-FI CH1/CH2 output for 0dbm.
6. If the playback audio level at the NORM/HI-FI CH1/CH2 outputs are not 0dbm, re-adjust VR4010(CH1), VR4011(CH2) based on 400mVp-p at TP4007/TP4012 and repeat steps 3 to 6.

5-3-45. NORMAL AUDIO TIME CODE METER LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
CH2 AUDIO METER	VR4001	PAL RECORDING	TIME CODE SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE		0±0.5Vu	

1. Install RS-232 interface with time code generator/Reader board (AG-IA232TC) into the VTR.
2. Set the Audio CH2 selection on the OSD to the Time Code mode.
3. Set the Meter select SW to the Normal.
4. Place the unit in the time code recording.
5. Adjust VR4001 so that the audio CH2 level meter indicates 0 +/-0.5VU point on the front panel.

5-3-46. NTSC Hi-Fi AUDIO HEAD SWITCHING SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4706 (H SW) TP4705 or TP4707	VR4708	NTSC PLAY	
TAPE	**M. EQ.**	**SPEC.**	
VFM8080HQFP PORTION: 2	OSCILLO-SCOPE	NO HEAD SWITCHING GAP	

1. Set the TV System switch to the NTSC position.
2. Play back the NTSC alignment tape at the portion 2.
3. Connect the oscilloscope CH1 to TP4706 and CH2 to TP4705 or TP4707.
4. Adjust VR4708 so that the head switching gap is not occured as shown in Figure E39.
5. Turn the tracing VR on the front panel from CCW position to CW position and confirm that the head switching gap is not occured.

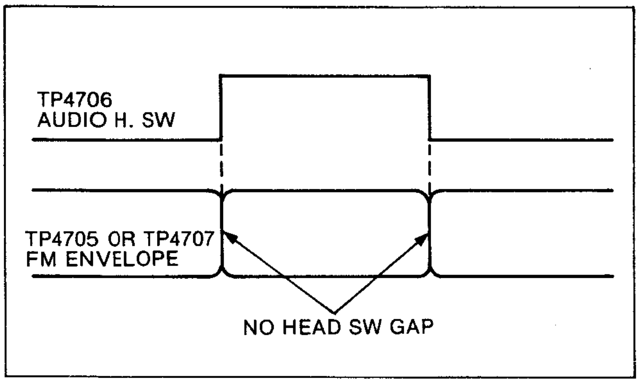


Figure E39

5-3-47. PAL Hi-Fi AUDIO HEAD SWITCHING SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4706 (H SW) TP4705 or TP4707	VR4707	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
VFM8180HADH POSITON ②	OSCILLO-SCOPE	NO HEAD SWITCHING GAP	

This adjustment should be always completed after NTSC Hi-Fi audio head switching shifter adjustment.

1. Set the TV system switch to the PAL position.
2. Play back the alignment tape at portion 2.
3. Connect the oscilloscope CH1 to TP4706 and CH2 to TP4705 or TP4707.
4. Adjust VR4707 so that the head switching gap is not occured as shown in Figure E40.
5. Turn the tracking VR on the front panel from CCW position to CW position and confirm that the head switching gap is not occured.

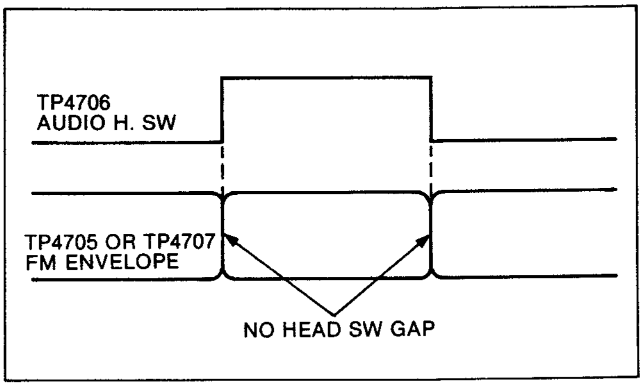


Figure E40

5-3-48. NTSC Hi-Fi AUDIO CARRIER FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4704 TP4708	VR4703 VR4711	NTSC STOP	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	FREQUENCY COUNTER	1.3MHz +/− 10kHz (CH1) 1.7MHz +/− 10kHz (CH2)	

1. Make a short circuit between both Hi-Fi audio Inputs (CH1 & CH2) and GND.
2. Set the TV system switch to the NTSC position.
3. Connect the frequency counter to TP4704 (CH1) or TP4708 (CH2).
4. Adjust VR4703 (CH1) or VR4711 (CH2) so that the reading of frequency counter is 1.3MHz +/- 10KHz for CH1 and 1.7KHz +/−10KHz for CH2.

5-3-49. PAL Hi-Fi AUDIO CARRIER FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4704 TP4708	VR4705 VR4710	PAL STOP	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	FREQUENCY COUNTER	1.3MHz +/− 10kHz (CH1) 1.7MHz +/− 10kHz (CH2)	

1. Make a short circuit between both Hi-Fi audio inputs (CH1 & CH2) and GND.
2. Set the TV system switch to the PAL position.
3. Connect the frequency counter to TP4704 (CH1), TP4708 (CH2).
4. Adjust VR4705 (CH1) or VR4710 (CH2) so that the reading of frequency counter is 1.3MHz +/− 10KHz for CH1 and 1.7KHz +/− 10KHz for CH2.

5-3-50. NTSC Hi-Fi AUDIO DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4704 TP4708	VR4704 VR4712	NTSC STOP	1kHz, −8dBv SINEWAVE
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SPECTRUM ANALYZER	fw=100kHz +/− 5kHz	

1. Set the TV system switch to the NTSC position.
2. Set the signal generator to 1KHz, -8dBv and supply it to the Hi-Fi Audio Inputs (CH1/CH2).
3. Connect the spectrum analyzer to TP4704 and set its center frequency to 1.3MHz.
4. Adjust VR4704 (CH1) so that the width of fw portion becomes 100KHz +/- 5KHz as shown below.
5. Re-connect the probe of spectrum analyzer to TP4708 (CH2) and set its center frequency to 1.7MHz.
6. Adjust VR4712 (CH2) so that the width of fw portion becomes 100KHz +/- 5KHz as shown in Figure E41.

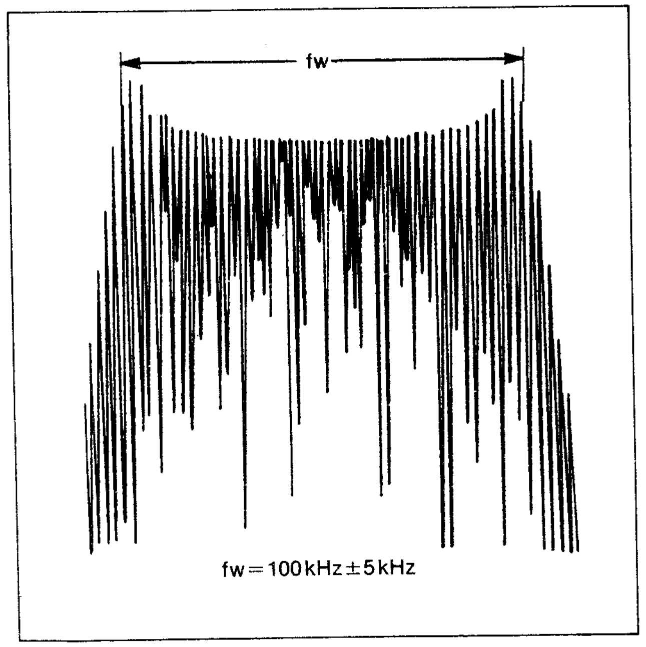


Figure E41

5-3-51. Hi-Fi AUDIO REC CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP5001 (HOT)	VR4706 VR4709	PAL RECORDING	NO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	CH1: 80mVp-p +/− 5mV CH2: 260mVp-p +/− 5mV	

1. Make the short circuit between both Hi-Fi audio Inputs (CH1/CH2) and GND.
2. Place the unit in the recording mode.
3. Fully close VR4709 so that the CH2 recording current is cut.
4. Connect the oscilloscope to TP5001 (HOT).
5. Adjust VR4706 for 80 +/-5mVp-p as shown in Figure E42.
6. Adjust VR4709 for 270 +/-5mVp-p as shown in Figure E43.

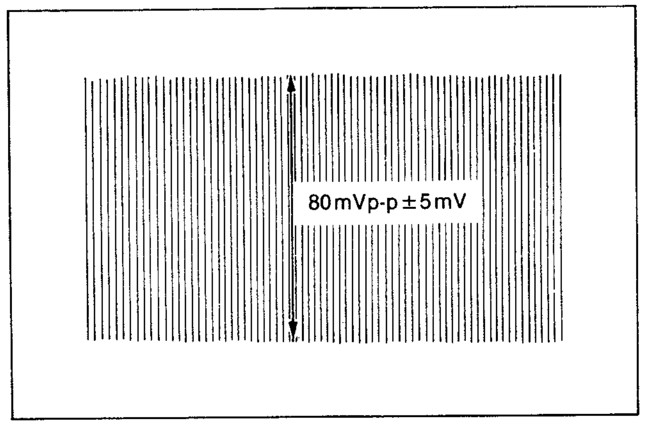


Figure E42

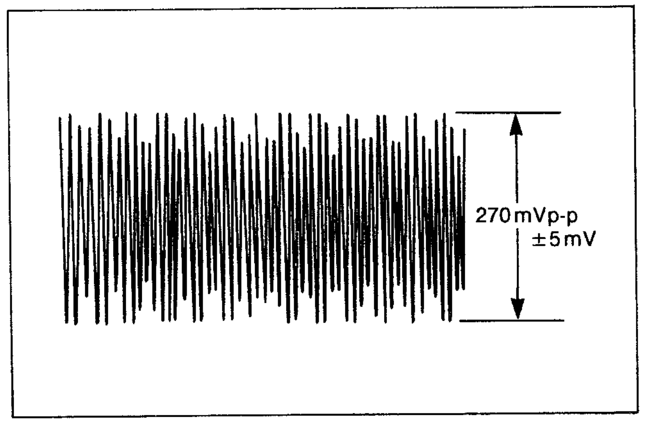
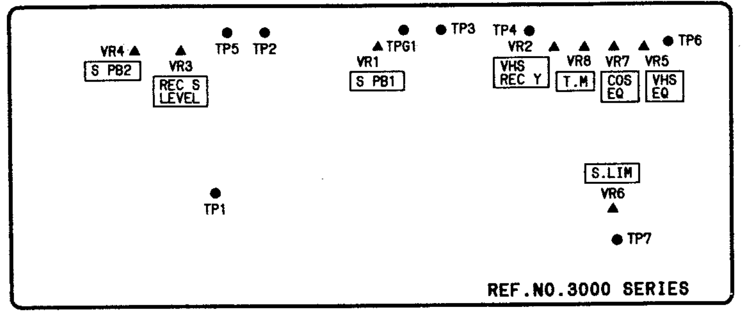


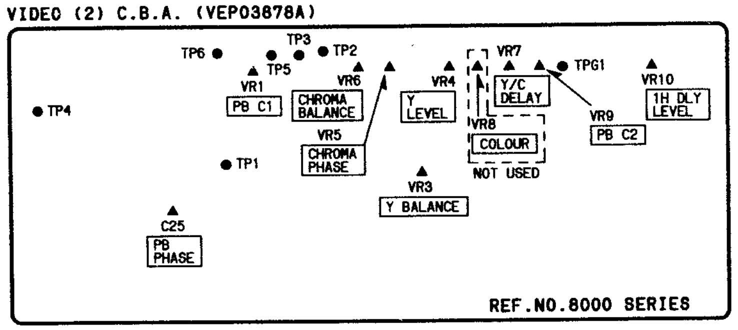
Figure E43

LOCATION OF TEST POINTS AND CONTROLS

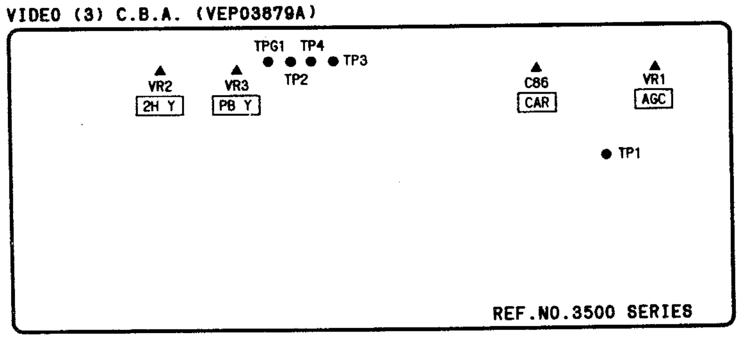
VIDEO (1) C.B.A. (VEP03877A)


VR4
S PB2
VR3
REC S LEVEL
TP5
TP2
TP1
VR1
S PB1
TPG1
TP3
TP4
VR2
VHS REC Y
VR8
T.M
VR7
COS EQ
VR5
VHS EQ
TP6
S.LIM
VR6
TP7
REF.NO.3000 SERIES

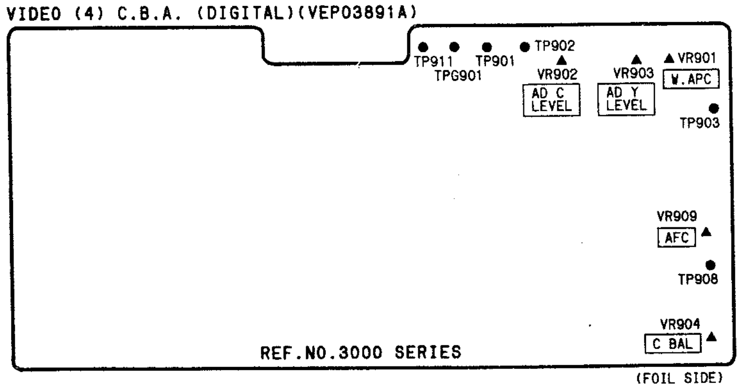
VIDEO (2) C.B.A. (VEP03878A)


TP4
TP6
TP5
TP3
TP2
VR1
PB C1
VR6
CHROMA BALANCE
VR5
CHROMA PHASE
TP1
C25
PB PHASE
VR4
Y LEVEL
VR3
Y BALANCE
VR7
Y/C DELAY
VR8
COLOUR
NOT USED
TPG1
VR9
PB C2
VR10
1H DLY LEVEL
REF.NO.8000 SERIES

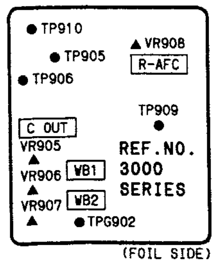
VIDEO (3) C.B.A. (VEP03879A)


VR2
2H Y
VR3
PB Y
TPG1
TP4
TP3
TP2
C86
CAR
VR1
AGC
TP1
REF.NO.3500 SERIES

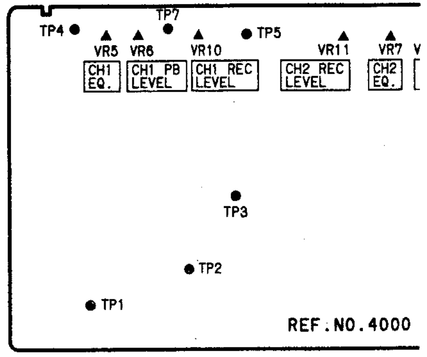
VIDEO (4) C.B.A. (DIGITAL)(VEP03891A)


TP911
TPG901
TP901
TP902
VR902
AD C LEVEL
VR903
AD Y LEVEL
VR901
W.APC
TP903
VR909
AFC
TP908
VR904
C BAL
REF.NO.3000 SERIES
(FOIL SIDE)

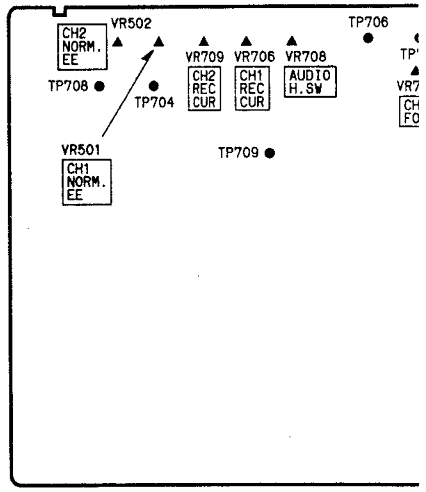
SUB VIDEO (4) C.B.A.
(DIGITAL SUB)(VEP03899A)


TP910
TP905
TP906
VR908
R-AFC
TP909
C OUT
VR905
VR906
WB1
VR907
WB2
TPG902
REF.NO. 3000 SERIES
(FOIL SIDE)

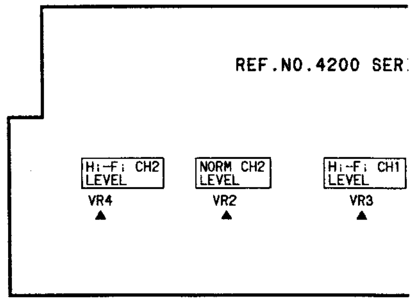
AUDIO (1) C.B.A. (VEP04326A)


TP4
TP7
TP5
VR5
CH1 EQ.
VR6
CH1 PB LEVEL
VR10
CH1 REC LEVEL
VR11
CH2 REC LEVEL
VR7
CH2 EQ.
TP3
TP2
TP1
REF.NO.4000

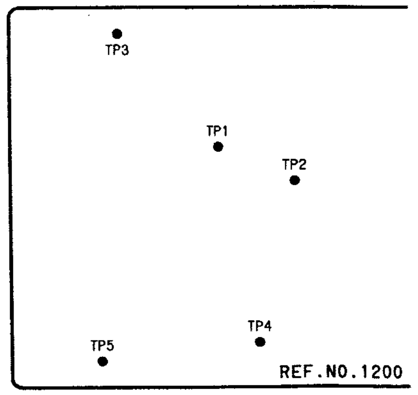
AUDIO (2) C.B.A. (VEP04327A)


CH2 NORM. EE
VR502
TP706
TP708
TP704
VR709
CH2 REC CUR
VR706
CH1 REC CUR
VR708
AUDIO H.SW
VR501
CH1 NORM. EE
TP709

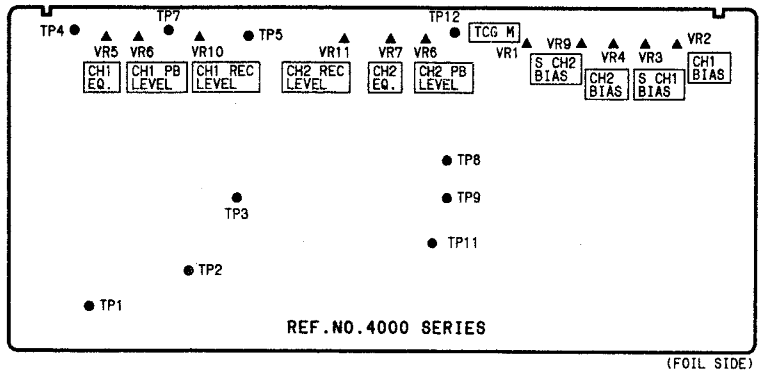
AUDIO METER C.B.A. (VEP04328A)


Hi-Fi CH2 LEVEL
VR4
NORM CH2 LEVEL
VR2
Hi-Fi CH1 LEVEL
VR3

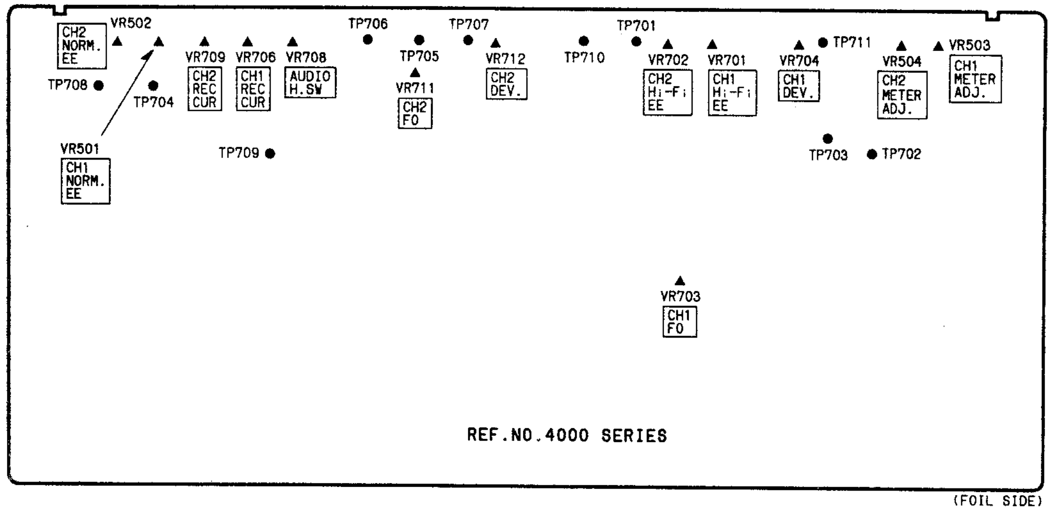
POWER DETECTION C.B.A. (VEP01471B)


TP3
TP1
TP2
TP5
TP4
REF.NO.1200

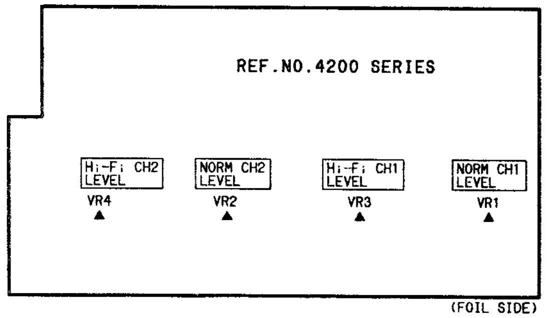
AUDIO (1) C.B.A. (VEP04326A)


TP4
TP7
TP5
TP12
TCG M
VR5
VR6
VR10
VR11
VR7
VR6
VR1
VR9
VR4
VR3
VR2
CH1 EQ.
CH1 PB LEVEL
CH1 REC LEVEL
CH2 REC LEVEL
CH2 EQ.
CH2 PB LEVEL
S CH2 BIAS
CH2 BIAS
S CH1 BIAS
CH1 BIAS
TP8
TP9
TP3
TP11
TP2
TP1
REF.NO.4000 SERIES
(FOIL SIDE)

AUDIO (2) C.B.A. (VEP04327A)

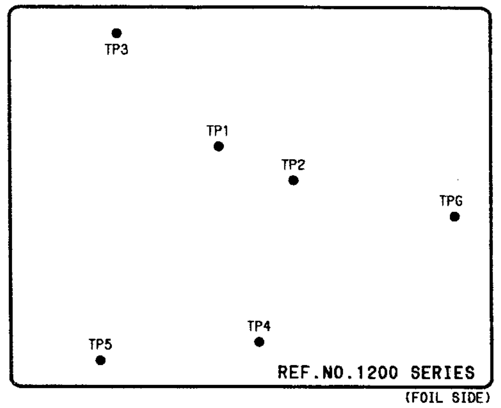

CH2 NORM. EE
VR502
TP708
TP704
VR709
CH2 REC CUR
VR706
CH1 REC CUR
VR708
AUDIO H.SW
TP706
TP705
VR711
CH2 FO
TP707
VR712
CH2 DEV.
TP710
TP701
VR702
CH2 Hi-Fi EE
VR701
CH1 Hi-Fi EE
VR704
CH1 DEV.
TP711
VR504
CH2 METER ADJ.
VR503
CH1 METER ADJ.
VR501
CH1 NORM. EE
TP709
TP703
TP702
VR703
CH1 FO
REF.NO.4000 SERIES
(FOIL SIDE)

AUDIO METER C.B.A. (VEP04328A)

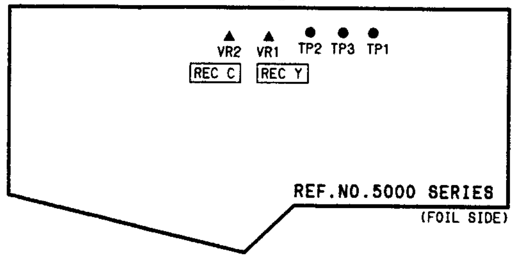

REF.NO.4200 SERIES
Hi-Fi CH2 LEVEL
VR4
NORM CH2 LEVEL
VR2
Hi-Fi CH1 LEVEL
VR3
NORM CH1 LEVEL
VR1
(FOIL SIDE)

899A)

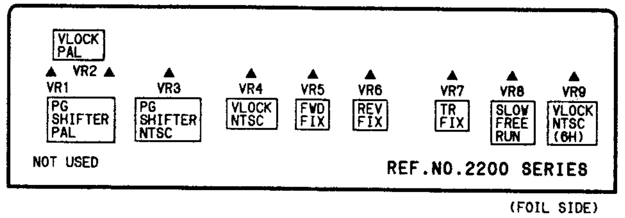
POWER DETECTION C.B.A. (VEP01471B)


TP3
TP1
TP2
TPG
TP5
TP4
REF.NO.1200 SERIES
(FOIL SIDE)

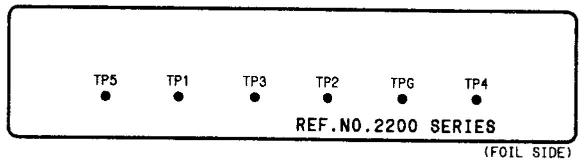
HEAD AMP C.B.A. (VEP05162A)


VR2
VR1
TP2
TP3
TP1
REC C
REC Y
REF.NO.5000 SERIES
(FOIL SIDE)

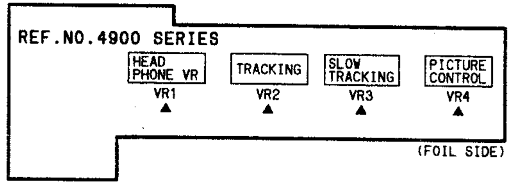
SERVO VR C.B.A. (VEP00R51A)


VLOCK PAL
VR1
VR2
PG SHIFTER PAL
NOT USED
VR3
PG SHIFTER NTSC
VR4
VLOCK NTSC
VR5
FWD FIX
VR6
REV FIX
VR7
TR FIX
VR8
SLOW FREE RUN
VR9
VLOCK NTSC (6H)
REF.NO.2200 SERIES
(FOIL SIDE)

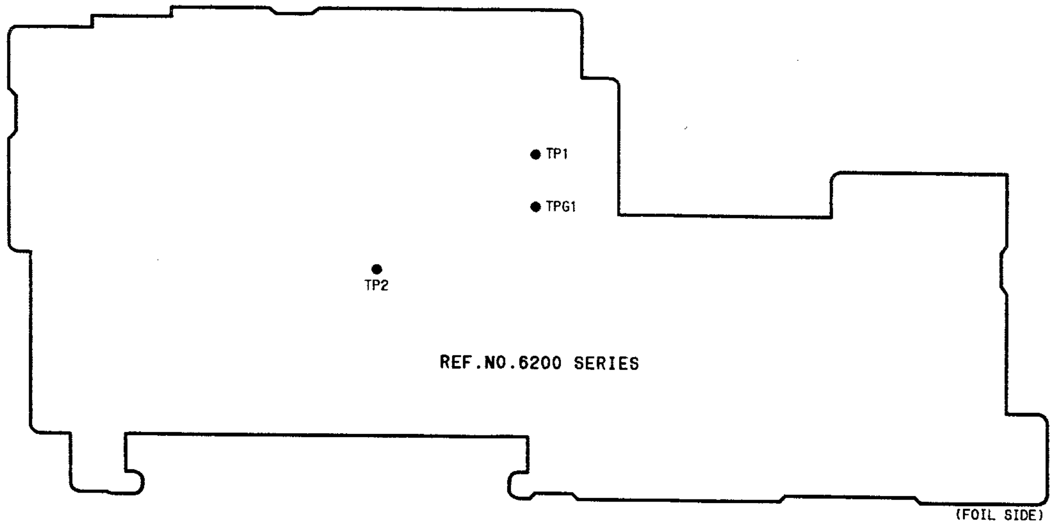
SERVO TP C.B.A. (VEP00R80A)


TP5
TP1
TP3
TP2
TPG
TP4
REF.NO.2200 SERIES
(FOIL SIDE)

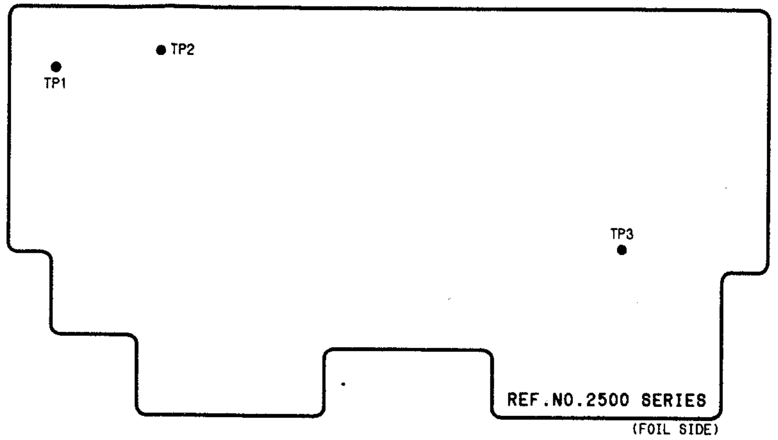
FRONT JACK C.B.A. (VEP04342A)


REF.NO.4900 SERIES
HEAD PHONE VR
VR1
TRACKING
VR2
SLOW TRACKING
VR3
PICTURE CONTROL
VR4
(FOIL SIDE)

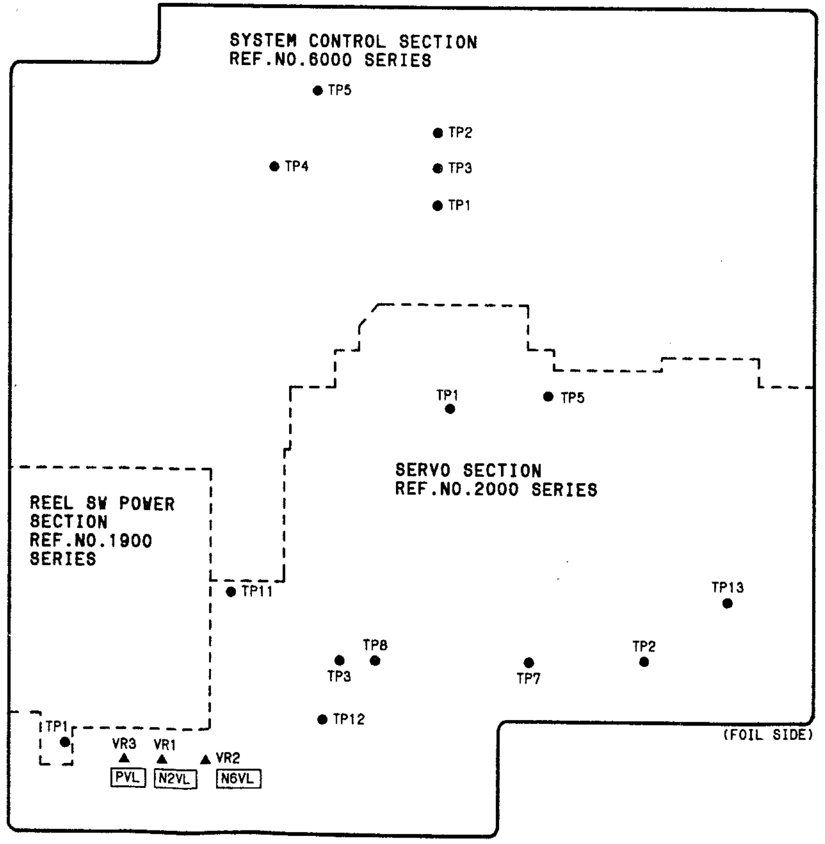
FRONT C.B.A. (VEP06749E)


TP1
TPG1
TP2
REF.NO.6200 SERIES
(FOIL SIDE)

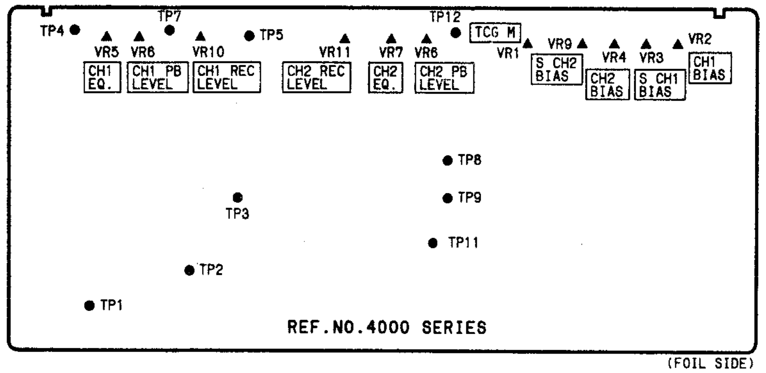
REEL SERVO C.B.A. (VEP02377A)


TP1
TP2
TP3
REF.NO.2500 SERIES
(FOIL SIDE)

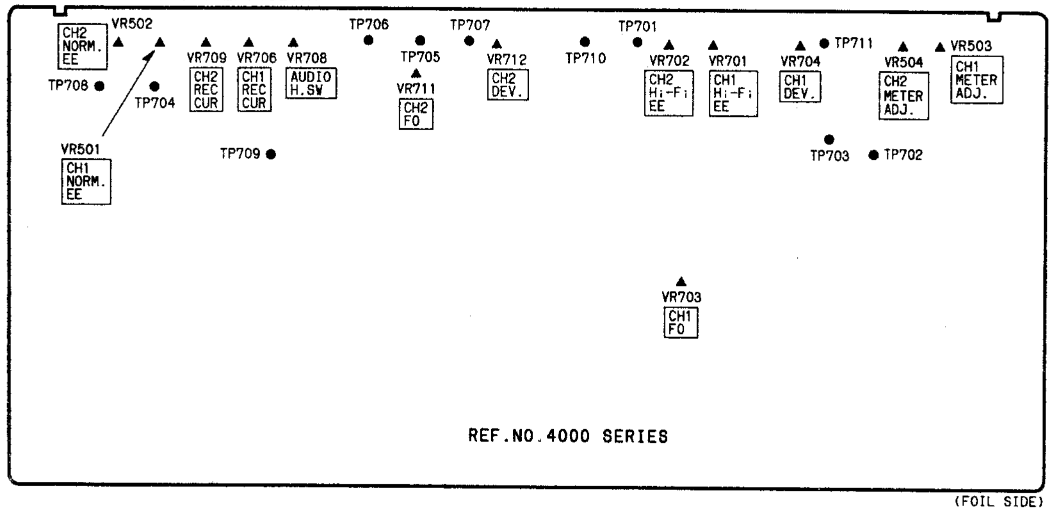
SERVO & SYSTEM CONTROL C.B.A. (VEP06729C)


SYSTEM CONTROL SECTION
REF.NO.6000 SERIES
TP5
TP2
TP4
TP3
TP1
TP1
TP5
SERVO SECTION
REF.NO.2000 SERIES
REEL SW POWER SECTION
REF.NO.1900 SERIES
TP11
TP13
TP8
TP3
TP7
TP2
TP12
TP1
VR3
VR1
VR2
PVL
N2VL
N6VL
(FOIL SIDE)

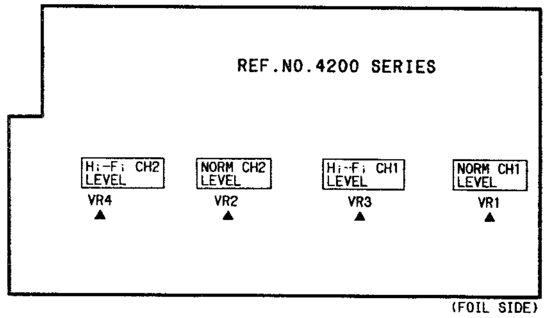
AUDIO (1) C.B.A. (VEP04326A)


TP4
TP7
TP5
TP12
VR5
VR6
VR10
VR11
VR7
VR8
VR1
VR9
VR4
VR3
VR2
CH1 EQ.
CH1 PB LEVEL
CH1 REC LEVEL
CH2 REC LEVEL
CH2 EQ.
CH2 PB LEVEL
TCG M
S CH2 BIAS
CH2 BIAS
S CH1 BIAS
CH1 BIAS
TP8
TP9
TP3
TP11
TP2
TP1
REF.NO.4000 SERIES
(FOIL SIDE)

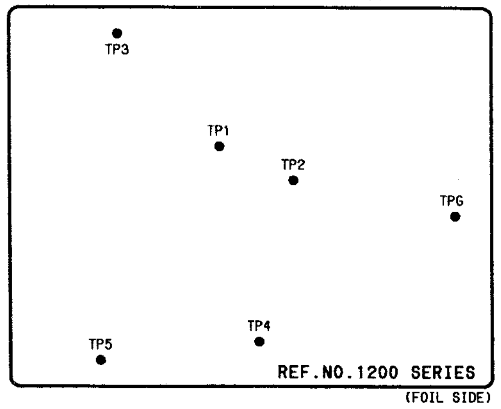
AUDIO (2) C.B.A. (VEP04327A)


CH2 NORM. EE
VR502
TP708
TP704
VR501
CH1 NORM. EE
VR709
CH2 REC CUR
VR706
CH1 REC CUR
VR708
AUDIO H.SW
TP706
TP705
VR711
CH2 FO
TP707
VR712
CH2 DEV.
TP710
TP701
VR702
CH2 Hi-Fi EE
VR701
CH1 Hi-Fi EE
VR704
CH1 DEV.
TP711
VR504
CH2 METER ADJ.
VR503
CH1 METER ADJ.
TP709
TP703
TP702
VR703
CH1 FO
REF.NO.4000 SERIES
(FOIL SIDE)

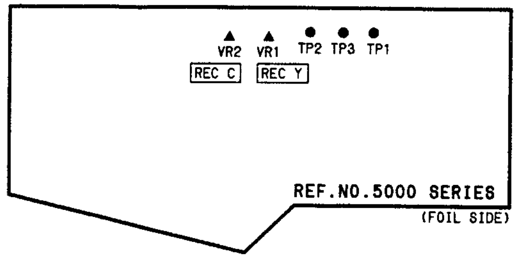
AUDIO METER C.B.A. (VEP04328A)


REF.NO.4200 SERIES
Hi-Fi CH2 LEVEL
VR4
NORM CH2 LEVEL
VR2
Hi-Fi CH1 LEVEL
VR3
NORM CH1 LEVEL
VR1
(FOIL SIDE)

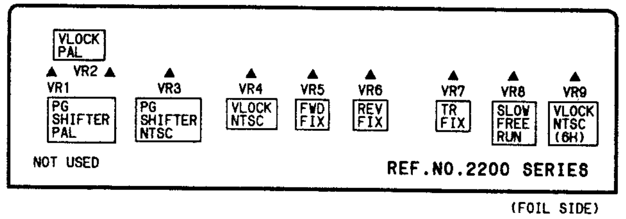
POWER DETECTION C.B.A. (VEP01471B)


TP3
TP1
TP2
TP6
TP4
TP5
REF.NO.1200 SERIES
(FOIL SIDE)

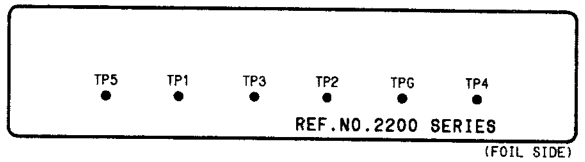
HEAD AMP C.B.A. (VEP05162A)


VR2
VR1
TP2
TP3
TP1
REC C
REC Y
REF.NO.5000 SERIES
(FOIL SIDE)

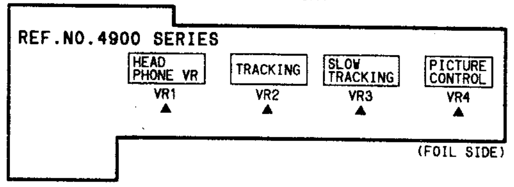
SERVO VR C.B.A. (VEP00R51A)


VLOCK PAL
VR1
VR2
PG SHIFTER PAL
NOT USED
VR3
PG SHIFTER NTSC
VR4
VLOCK NTSC
VR5
FWD FIX
VR6
REV FIX
VR7
TR FIX
VR8
SLOW FREE RUN
VR9
VLOCK NTSC (6H)
REF.NO.2200 SERIES
(FOIL SIDE)

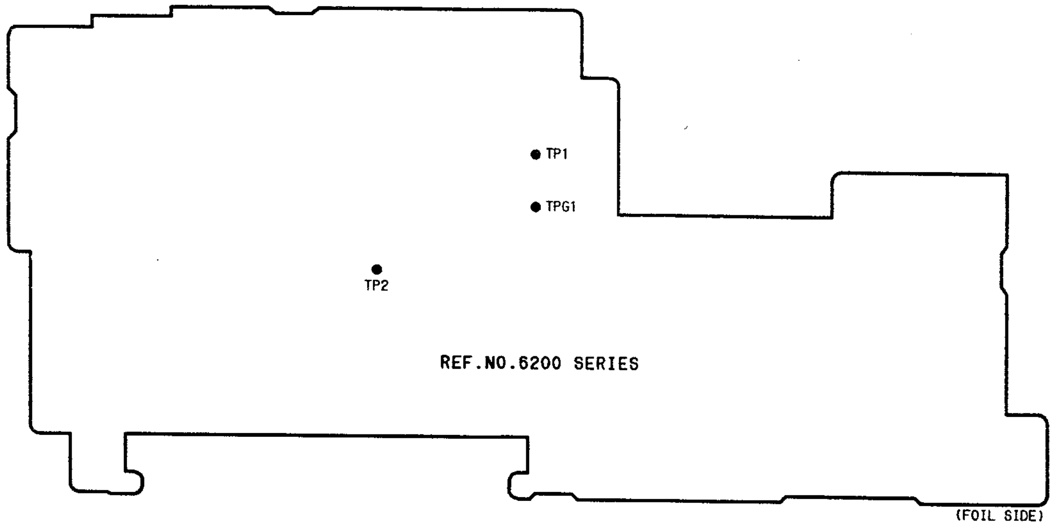
SERVO TP C.B.A. (VEP00R80A)


TP5
TP1
TP3
TP2
TPG
TP4
REF.NO.2200 SERIES
(FOIL SIDE)

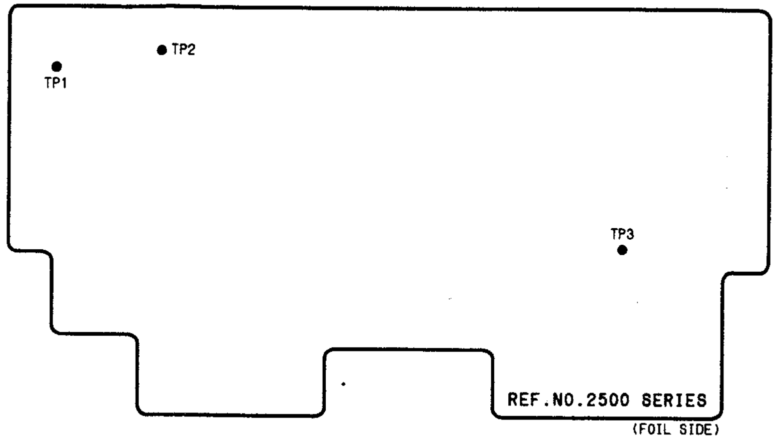
FRONT JACK C.B.A. (VEP04342A)


REF.NO.4900 SERIES
HEAD PHONE VR
VR1
TRACKING
VR2
SLOW TRACKING
VR3
PICTURE CONTROL
VR4
(FOIL SIDE)

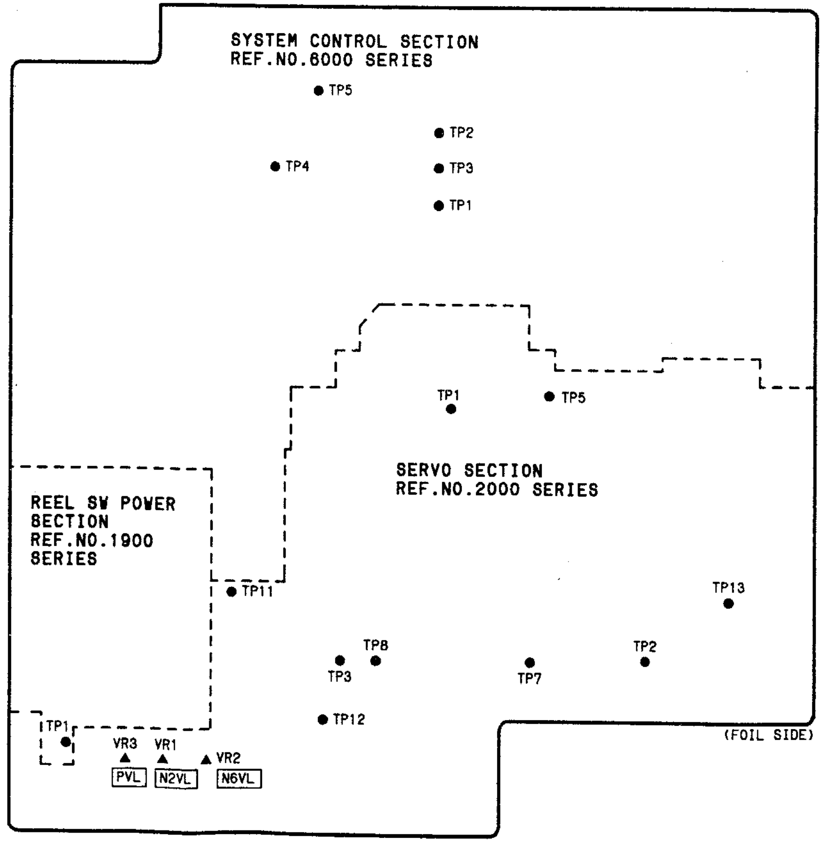
FRONT C.B.A. (VEP06749E)


TP1
TPG1
TP2
REF.NO.6200 SERIES
(FOIL SIDE)

REEL SERVO C.B.A. (VEP02377A)


TP1
TP2
TP3
REF.NO.2500 SERIES
(FOIL SIDE)

SERVO & SYSTEM CONTROL C.B.A. (VEP06729C)


SYSTEM CONTROL SECTION
REF.NO.6000 SERIES
TP5
TP2
TP4
TP3
TP1
TP1
TP5
SERVO SECTION
REF.NO.2000 SERIES
REEL SW POWER SECTION
REF.NO.1900 SERIES
TP11
TP13
TP8
TP3
TP7
TP2
TP12
TP1
VR3
VR1
VR2
PVL
N2VL
N6VL
(FOIL SIDE)

899A)

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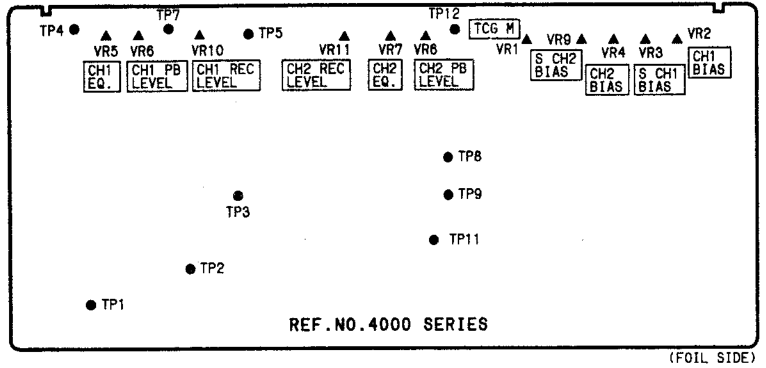
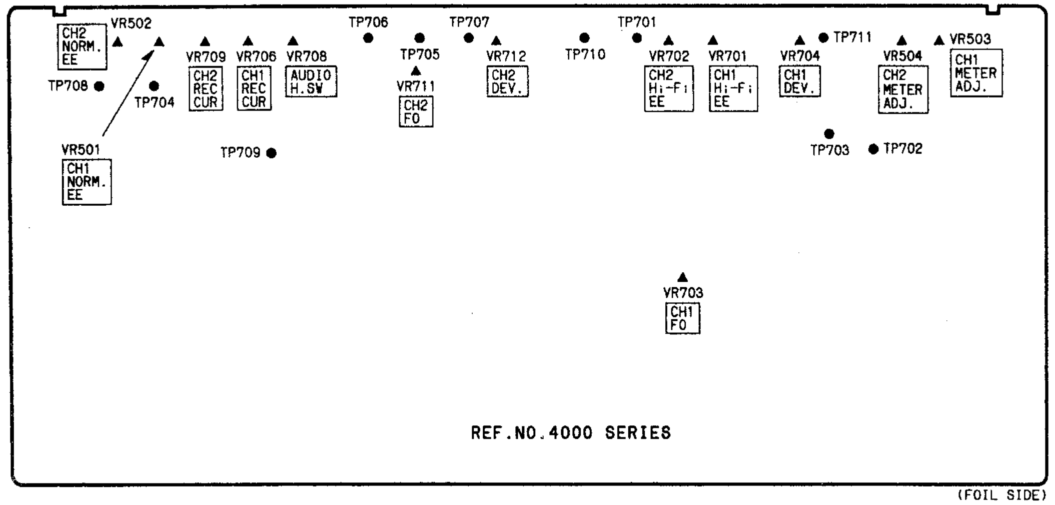
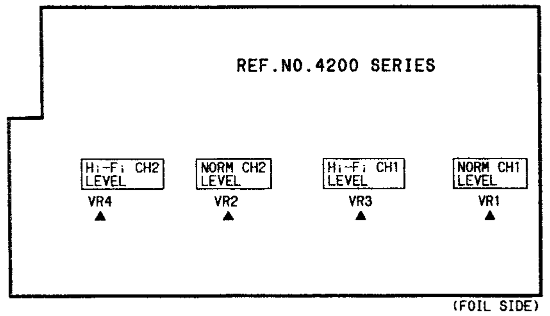
AUDIO (1) C.B.A. (VEP04326A)


TP4
TP7
TP5
TP12
TCG M
VR1
VR5
VR6
VR10
VR11
VR7
VR6
VR9
VR4
VR3
VR2
CH1 EQ.
CH1 PB LEVEL
CH1 REC LEVEL
CH2 REC LEVEL
CH2 EQ.
CH2 PB LEVEL
S CH2 BIAS
CH2 BIAS
S CH1 BIAS
CH1 BIAS
TP8
TP9
TP3
TP11
TP2
TP1
REF.NO.4000 SERIES
(FOIL SIDE)

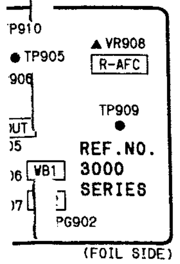
AUDIO (2) C.B.A. (VEP04327A)


CH2 NORM. EE
VR502
TP708
TP704
VR709
CH2 REC CUR
VR706
CH1 REC CUR
VR708
AUDIO H.SW
TP706
TP705
VR711
CH2 FO
TP707
VR712
CH2 DEV.
TP710
TP701
VR702
CH2 Hi-Fi EE
VR701
CH1 Hi-Fi EE
VR704
CH1 DEV.
TP711
VR504
CH2 METER ADJ.
VR503
CH1 METER ADJ.
VR501
CH1 NORM. EE
TP709
TP703
TP702
VR703
CH1 FO
REF.NO.4000 SERIES
(FOIL SIDE)

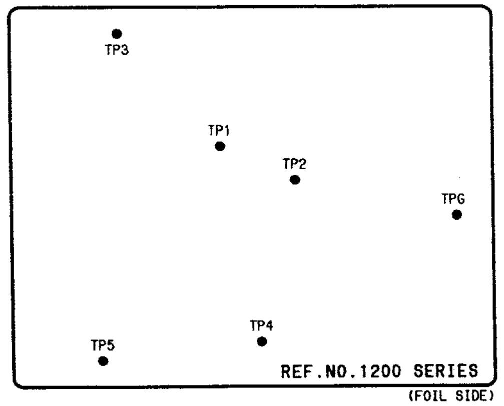
AUDIO METER C.B.A. (VEP04328A)


REF.NO.4200 SERIES
Hi-Fi CH2 LEVEL
VR4
NORM CH2 LEVEL
VR2
Hi-Fi CH1 LEVEL
VR3
NORM CH1 LEVEL
VR1
(FOIL SIDE)

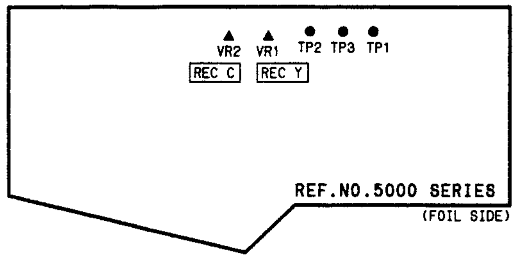
VI O (4) C.B.A.
IT . SUB)(VEP03899A)


P910
TP905
906
VR908
R-AFC
TP909
UT
5
6
WB1
7
PG902
REF.NO. 3000 SERIES
(FOIL SIDE)

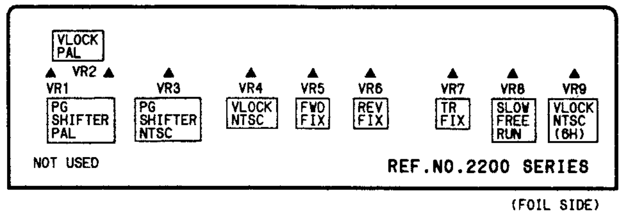
POWER DETECTION C.B.A. (VEP01471B)


TP3
TP1
TP2
TPG
TP4
TP5
REF.NO.1200 SERIES
(FOIL SIDE)

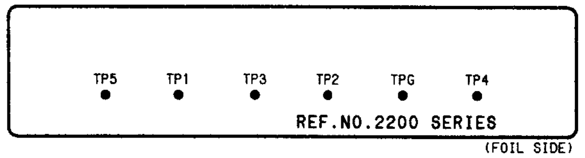
HEAD AMP C.B.A. (VEP05162A)


VR2
VR1
TP2
TP3
TP1
REC C
REC Y
REF.NO.5000 SERIES
(FOIL SIDE)

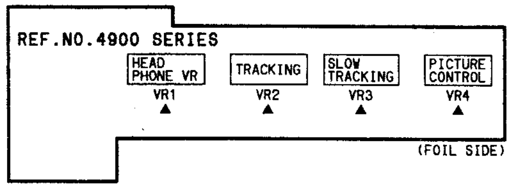
SERVO VR C.B.A. (VEP00R51A)


VLOCK PAL
VR1
VR2
PG SHIFTER PAL
VR3
PG SHIFTER NTSC
VR4
VLOCK NTSC
VR5
FWD FIX
VR6
REV FIX
VR7
TR FIX
VR8
SLOW FREE RUN
VR9
VLOCK NTSC (6H)
NOT USED
REF.NO.2200 SERIES
(FOIL SIDE)

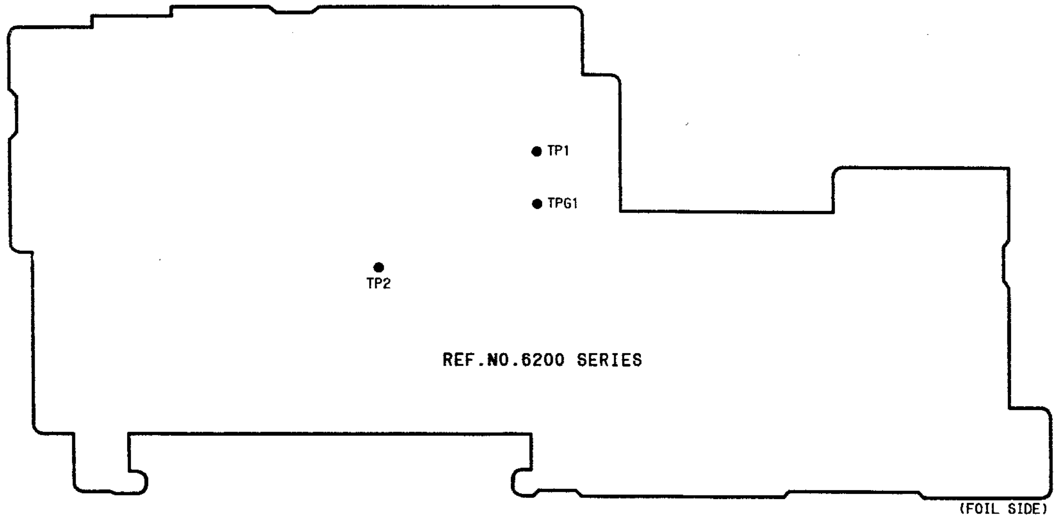
SERVO TP C.B.A. (VEP00R80A)


TP5
TP1
TP3
TP2
TPG
TP4
REF.NO.2200 SERIES
(FOIL SIDE)

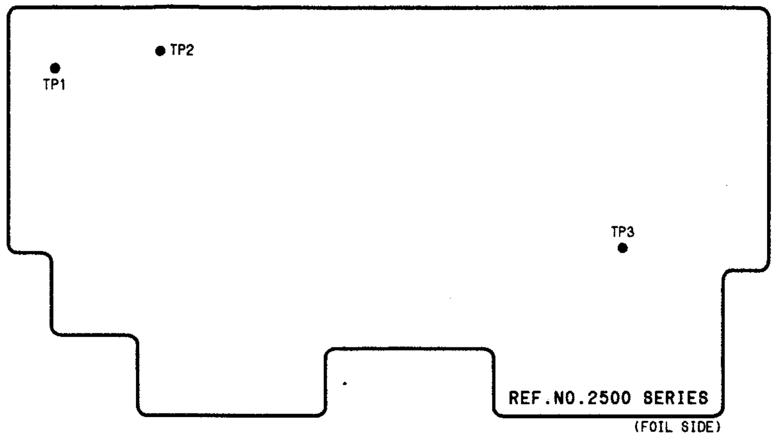
FRONT JACK C.B.A. (VEP04342A)


REF.NO.4900 SERIES
HEAD PHONE VR
VR1
TRACKING
VR2
SLOW TRACKING
VR3
PICTURE CONTROL
VR4
(FOIL SIDE)

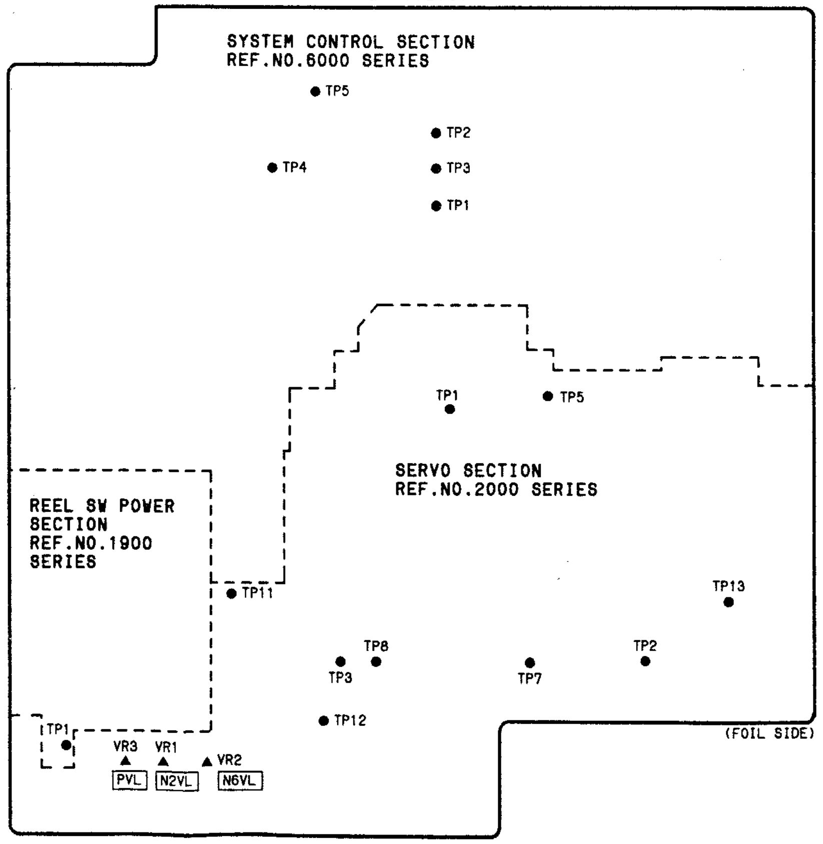
FRONT C.B.A. (VEP06749E)


TP1
TPG1
TP2
REF.NO.6200 SERIES
(FOIL SIDE)

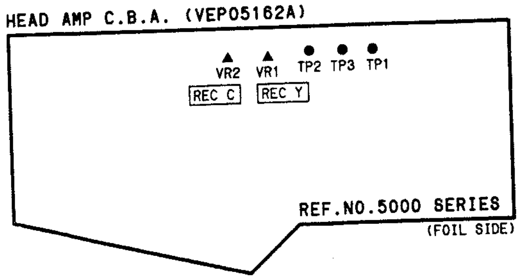
REEL SERVO C.B.A. (VEP02377A)


TP1
TP2
TP3
REF.NO.2500 SERIES
(FOIL SIDE)

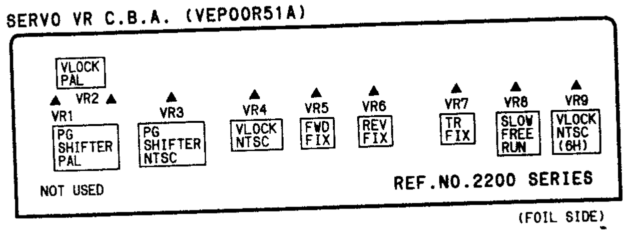
SERVO & SYSTEM CONTROL C.B.A. (VEP06729C)


SYSTEM CONTROL SECTION
REF.NO.6000 SERIES
TP5
TP2
TP4
TP3
TP1
TP1
TP5
SERVO SECTION
REF.NO.2000 SERIES
REEL SW POWER SECTION
REF.NO.1900 SERIES
TP11
TP13
TP8
TP3
TP7
TP2
TP12
TP1
VR3
VR1
VR2
PVL
N2VL
N6VL
(FOIL SIDE)

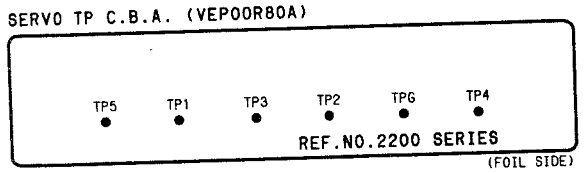
HEAD AMP C.B.A. (VEP05162A)


VR2
VR1
TP2
TP3
TP1
REC C
REC Y
REF.NO.5000 SERIES
(FOIL SIDE)

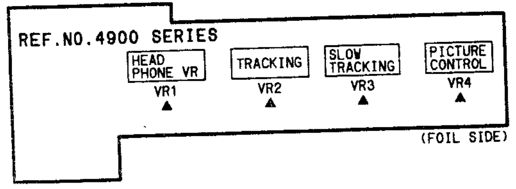
SERVO VR C.B.A. (VEP00R51A)


VLOCK PAL
VR1
VR2
PG SHIFTER PAL
VR3
PG SHIFTER NTSC
VR4
VLOCK NTSC
VR5
FWD FIX
VR6
REV FIX
VR7
TR FIX
VR8
SLOW FREE RUN
VR9
VLOCK NTSC (6H)
NOT USED
REF.NO.2200 SERIES
(FOIL SIDE)

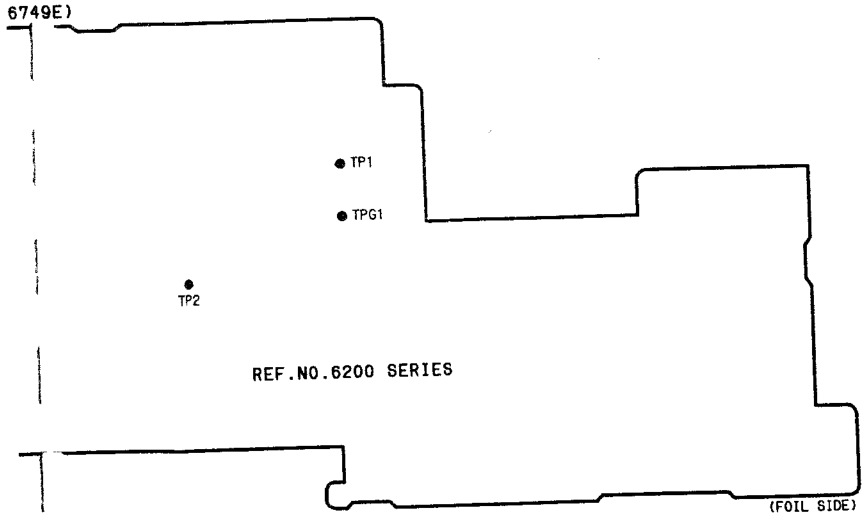
SERVO TP C.B.A. (VEP00R80A)


TP5
TP1
TP3
TP2
TPG
TP4
REF.NO.2200 SERIES
(FOIL SIDE)

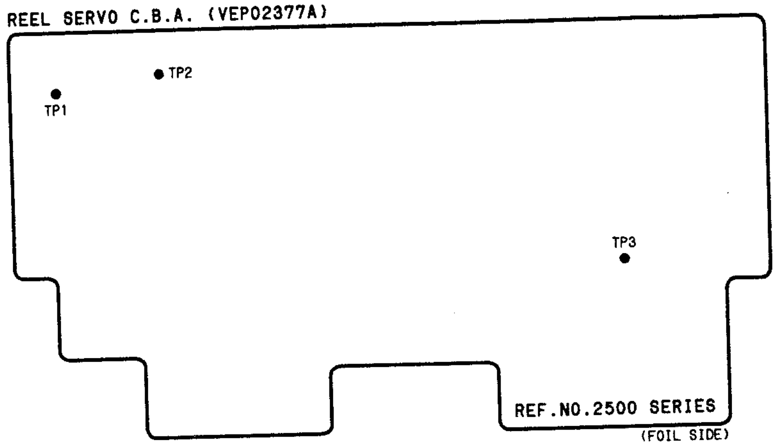
FRONT JACK C.B.A. (VEP04342A)


REF.NO.4900 SERIES
HEAD PHONE VR
VR1
TRACKING
VR2
SLOW TRACKING
VR3
PICTURE CONTROL
VR4
(FOIL SIDE)

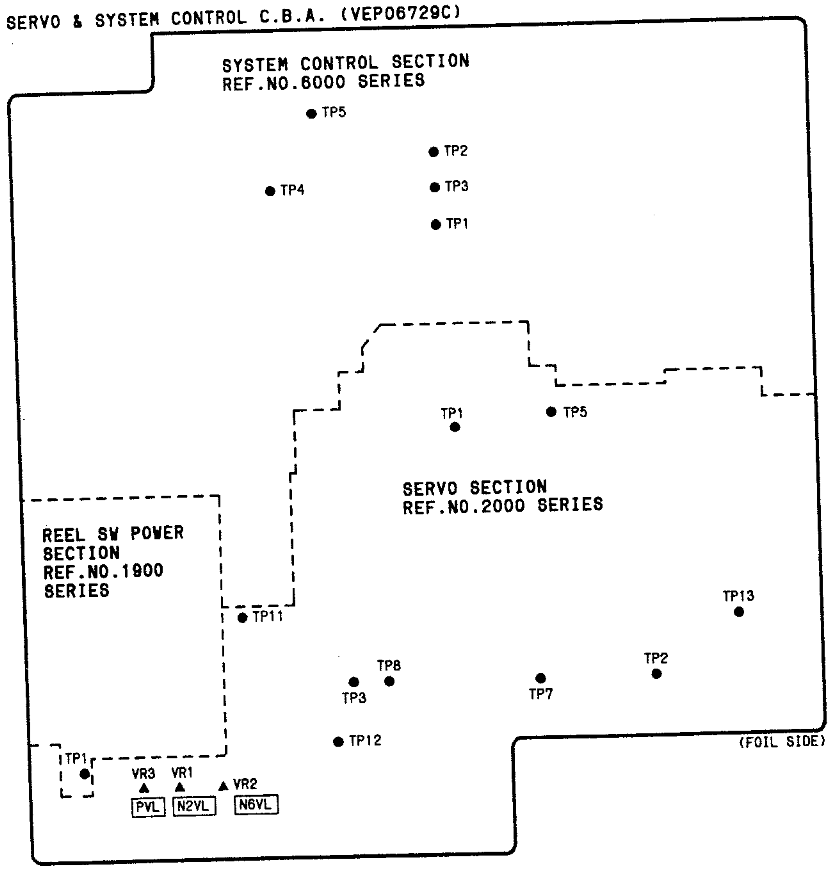
6749E)


TP1
TPG1
TP2
REF.NO.6200 SERIES
(FOIL SIDE)

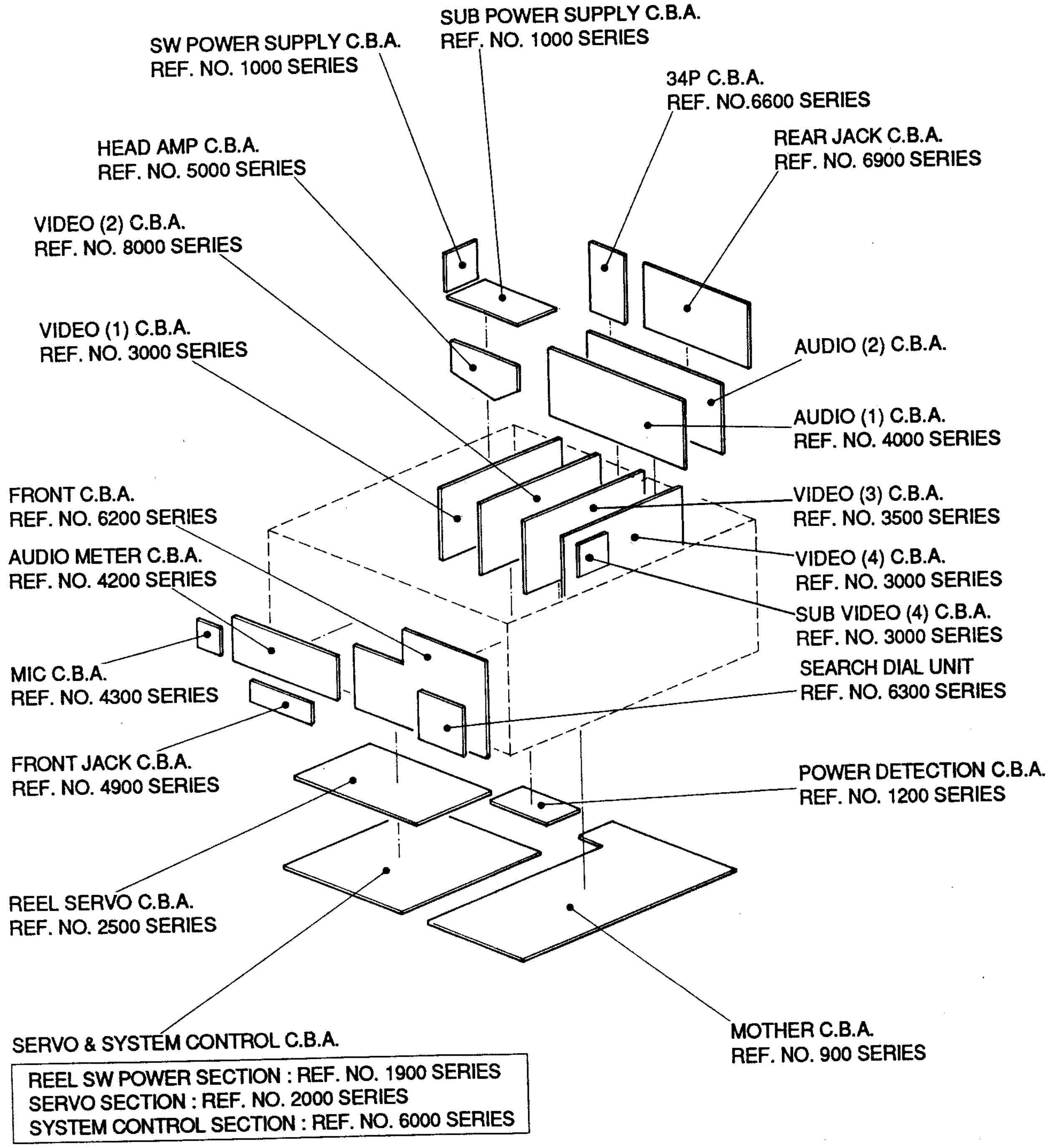
REEL SERVO C.B.A. (VEP02377A)


TP2
TP1
TP3
REF.NO.2500 SERIES
(FOIL SIDE)

SERVO & SYSTEM CONTROL C.B.A. (VEP06729C)


SYSTEM CONTROL SECTION
REF.NO.6000 SERIES
TP5
TP2
TP4
TP3
TP1
TP1
TP5
SERVO SECTION
REF.NO.2000 SERIES
REEL SW POWER SECTION
REF.NO.1900 SERIES
TP11
TP13
TP8
TP3
TP7
TP2
TP12
TP1
VR3
VR1
VR2
PVL
N2VL
N6VL
(FOIL SIDE)

CIRCUIT BOARD LAYOUT


SUB POWER SUPPLY C.B.A.
REF. NO. 1000 SERIES
SW POWER SUPPLY C.B.A.
REF. NO. 1000 SERIES
34P C.B.A.
REF. NO.6600 SERIES
REAR JACK C.B.A.
REF. NO. 6900 SERIES
HEAD AMP C.B.A.
REF. NO. 5000 SERIES
VIDEO (2) C.B.A.
REF. NO. 8000 SERIES
VIDEO (1) C.B.A.
REF. NO. 3000 SERIES
AUDIO (2) C.B.A.
AUDIO (1) C.B.A.
REF. NO. 4000 SERIES
FRONT C.B.A.
REF. NO. 6200 SERIES
VIDEO (3) C.B.A.
REF. NO. 3500 SERIES
AUDIO METER C.B.A.
REF. NO. 4200 SERIES
VIDEO (4) C.B.A.
REF. NO. 3000 SERIES
SUB VIDEO (4) C.B.A.
REF. NO. 3000 SERIES
MIC C.B.A.
REF. NO. 4300 SERIES
SEARCH DIAL UNIT
REF. NO. 6300 SERIES
FRONT JACK C.B.A.
REF. NO. 4900 SERIES
POWER DETECTION C.B.A.
REF. NO. 1200 SERIES
REEL SERVO C.B.A.
REF. NO. 2500 SERIES
MOTHER C.B.A.
REF. NO. 900 SERIES
SERVO & SYSTEM CONTROL C.B.A.
REEL SW POWER SECTION : REF. NO. 1900 SERIES
SERVO SECTION : REF. NO. 2000 SERIES
SYSTEM CONTROL SECTION : REF. NO. 6000 SERIES

AUDIO (2) C.B.A.

I/O SECTION : REF. NO. 4500 SERIES
Hi-Fi AUDIO SECTION : REF. NO. 4700 SERIES

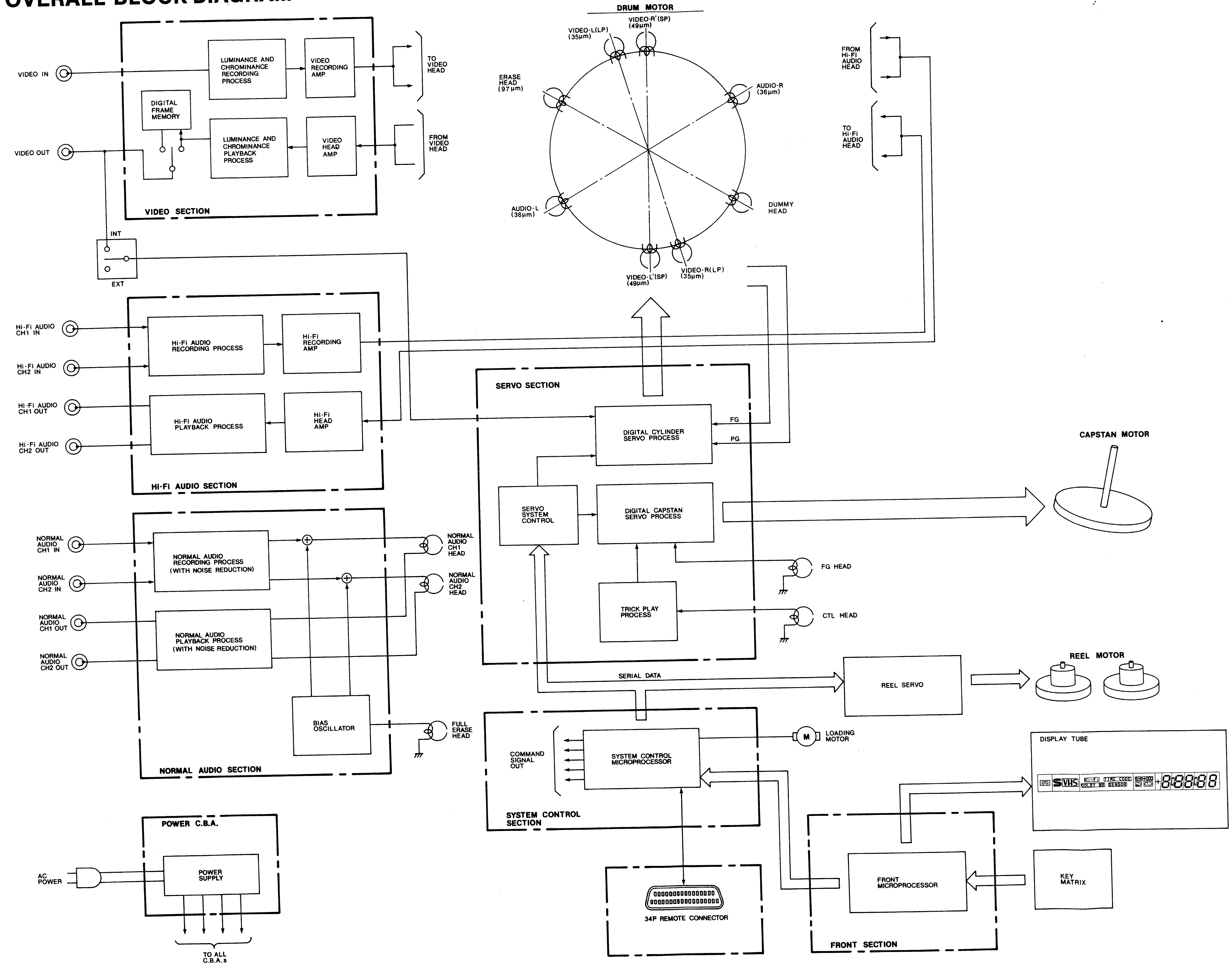
Section 6

BLOCK DIAGRAMS

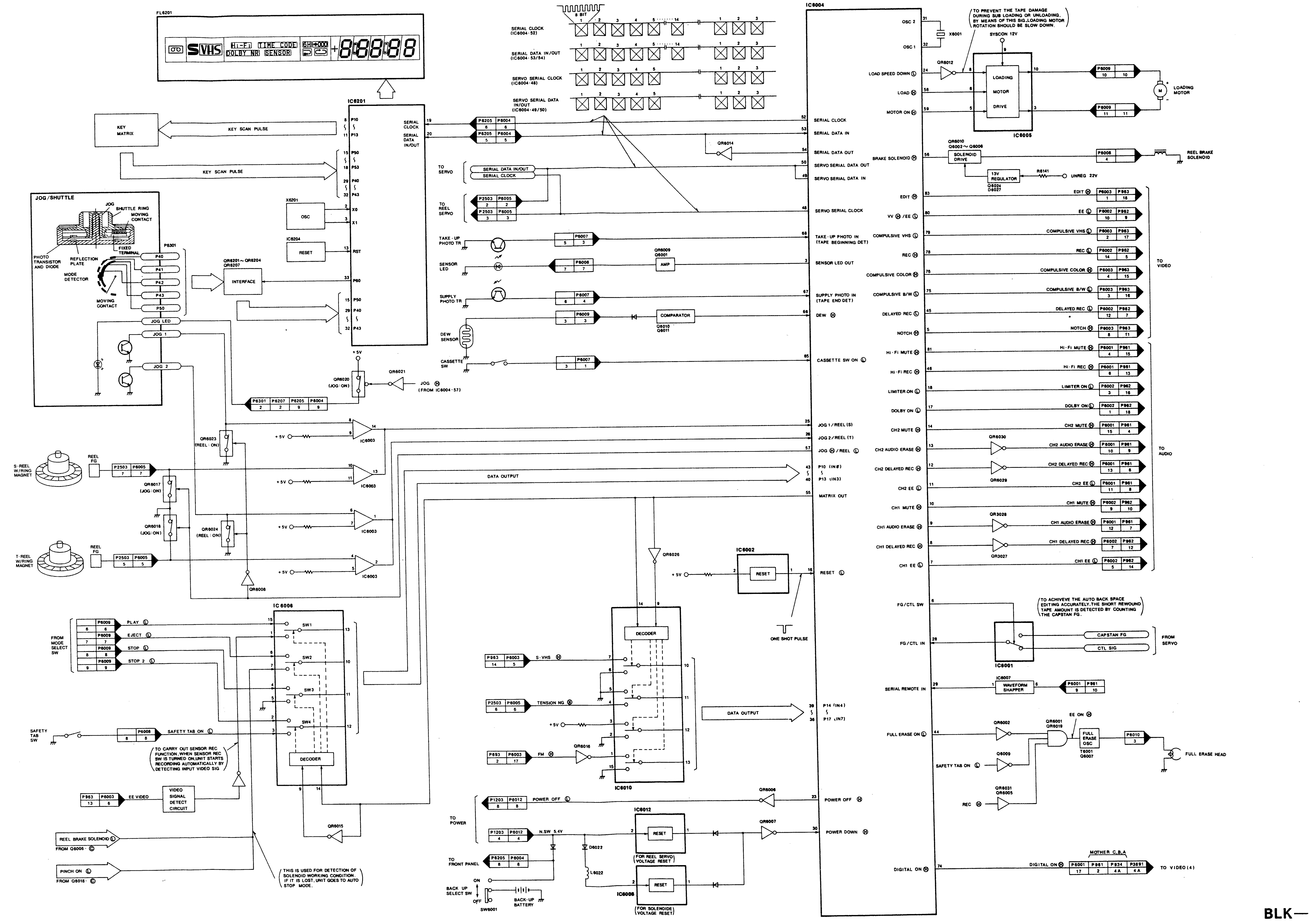
CONTENTS

Overall BLK-3
System Control BLK-3
Servo BLK-4
Reel Servo BLK-5
Video (1) BLK-6
Video (2) BLK-7
Video (3) BLK-8
Video (4) BLK-9
34P Interface BLK-9
Hi-Fi Audio BLK-10
Normal Audio BLK-11

OVERALL BLOCK DIAGRAM


VIDEO IN
VIDEO OUT
LUMINANCE AND CHROMINANCE RECORDING PROCESS
VIDEO RECORDING AMP
TO VIDEO HEAD
DIGITAL FRAME MEMORY
LUMINANCE AND CHROMINANCE PLAYBACK PROCESS
VIDEO HEAD AMP
FROM VIDEO HEAD
VIDEO SECTION
INT
EXT
DRUM MOTOR
VIDEO-R'(SP) (49µm)
VIDEO-L(LP) (35µm)
ERASE HEAD (97µm)
AUDIO-R (36µm)
AUDIO-L (36µm)
DUMMY HEAD
VIDEO-L'(SP) (49µm)
VIDEO-R(LP) (35µm)
FROM Hi-Fi AUDIO HEAD
TO Hi-Fi AUDIO HEAD
Hi-Fi AUDIO CH1 IN
Hi-Fi AUDIO CH2 IN
Hi-Fi AUDIO CH1 OUT
Hi-Fi AUDIO CH2 OUT
Hi-Fi AUDIO RECORDING PROCESS
Hi-Fi RECORDING AMP
Hi-Fi AUDIO PLAYBACK PROCESS
Hi-Fi HEAD AMP
Hi-Fi AUDIO SECTION
SERVO SECTION
DIGITAL CYLINDER SERVO PROCESS
FG
PG
SERVO SYSTEM CONTROL
DIGITAL CAPSTAN SERVO PROCESS
TRICK PLAY PROCESS
CAPSTAN MOTOR
FG HEAD
CTL HEAD
NORMAL AUDIO CH1 IN
NORMAL AUDIO CH2 IN
NORMAL AUDIO CH1 OUT
NORMAL AUDIO CH2 OUT
NORMAL AUDIO RECORDING PROCESS (WITH NOISE REDUCTION)
NORMAL AUDIO PLAYBACK PROCESS (WITH NOISE REDUCTION)
NORMAL AUDIO CH1 HEAD
NORMAL AUDIO CH2 HEAD
BIAS OSCILLATOR
FULL ERASE HEAD
NORMAL AUDIO SECTION
SERIAL DATA
REEL SERVO
REEL MOTOR
COMMAND SIGNAL OUT
SYSTEM CONTROL MICROPROCESSOR
M
LOADING MOTOR
SYSTEM CONTROL SECTION
DISPLAY TUBE
S-VHS
Hi-Fi
DOLBY NR
TIME CODE
SENSOR
34P REMOTE CONNECTOR
FRONT MICROPROCESSOR
KEY MATRIX
FRONT SECTION
POWER C.B.A.
AC POWER
POWER SUPPLY
TO ALL C.B.A.s

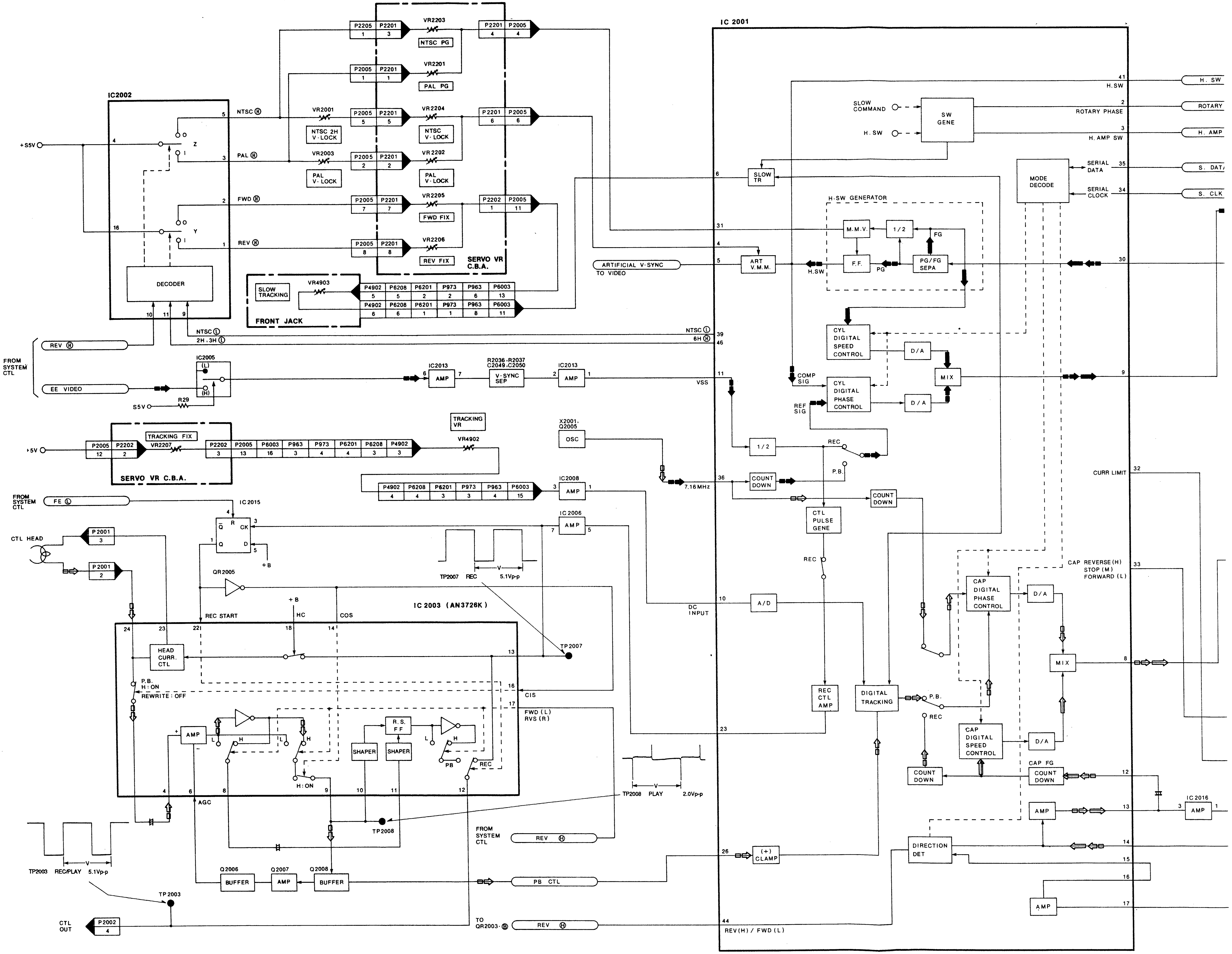
SYSTEM CONTROL BLOCK DIAGRAM



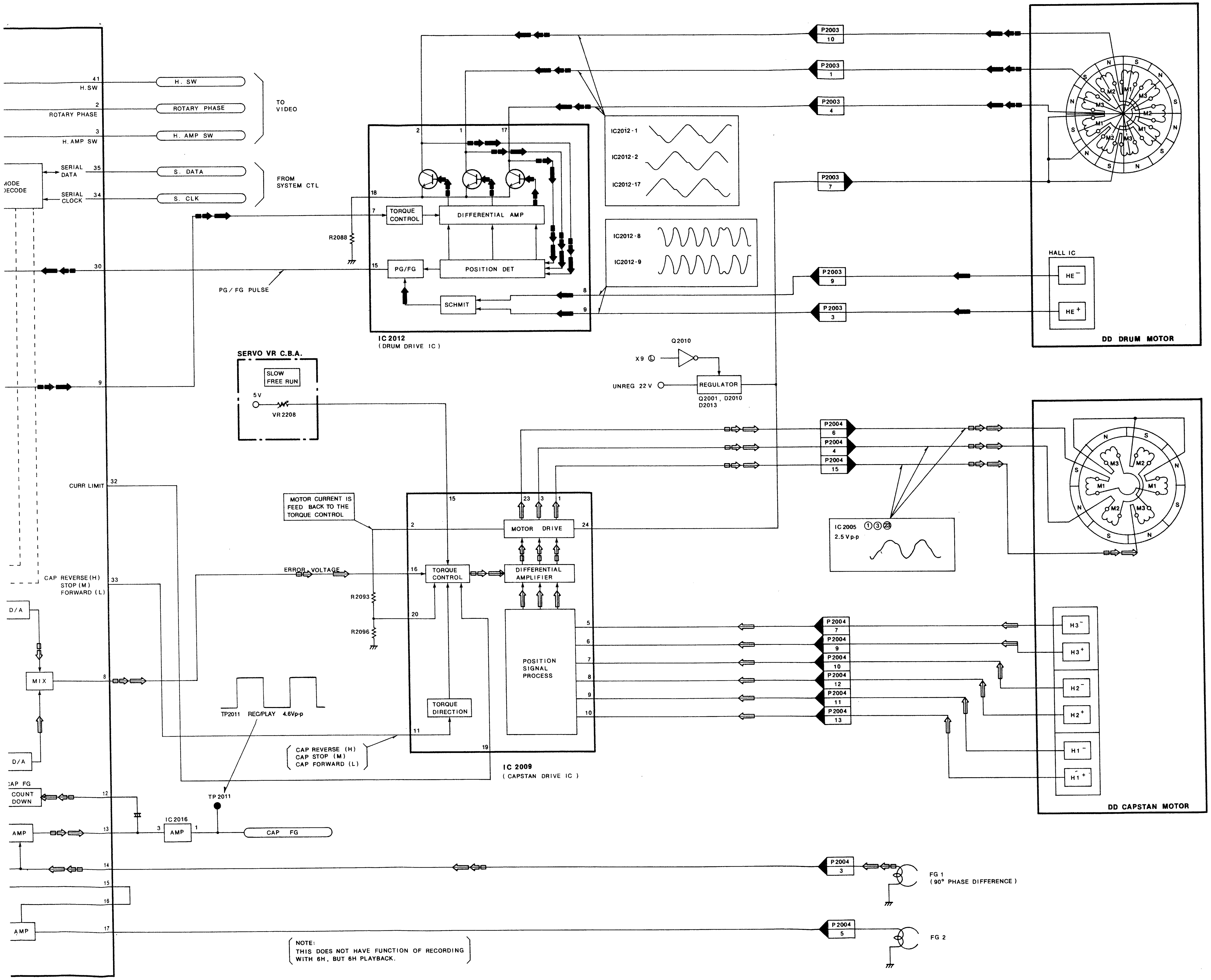
FL6201
Hi-Fi
TIME CODE
DOLBY NR
SENSOR
SVHS
IC6201
KEY MATRIX
KEY SCAN PULSE
KEY SCAN PULSE
JOG/SHUTTLE
JOG
SHUTTLE RING
MOVING CONTACT
FIXED TERMINAL
PHOTO TRANSISTOR AND DIODE
REFLECTION PLATE
MODE DETECTOR
MOVING CONTACT
P6301
P40
P41
P42
P43
P50
JOG LED
JOG 1
JOG 2
X6201
OSC
IC6204
RESET
QR6201 ~ QR6204
QR6207
INTERFACE
SERIAL CLOCK
SERIAL DATA IN/OUT
QR6020 (JOG : ON)
QR6021
JOG Ⓗ (FROM IC6004-57)
+5V
P6301 P6207 P6205 P6004
TO SERVO
SERIAL DATA IN/OUT
SERIAL CLOCK
TO REEL SERVO
P2503 P6005
TAKE-UP PHOTO TR
SENSOR LED
SUPPLY PHOTO TR
DEW SENSOR
CASSETTE SW
P6007
P6008
P6009
QR6009 Q6001
AMP
COMPARATOR
Q6010 Q6011
8 BIT
SERIAL CLOCK (IC6004-52)
SERIAL DATA IN/OUT (IC6004-53/54)
SERVO SERIAL CLOCK (IC6004-48)
SERVO SERIAL DATA IN/OUT (IC6004-49/50)
QR6014
QR6023 (REEL : ON)
S-REEL W/RING MAGNET
REEL FG
QR6017 (JOG : ON)
QR6018 (JOG : ON)
QR6024 (REEL : ON)
T-REEL W/RING MAGNET
IC6003
QR6008
DATA OUTPUT
IC6004
OSC 2
OSC 1
X6001
SERIAL CLOCK
SERIAL DATA IN
SERIAL DATA OUT
SERVO SERIAL DATA OUT
SERVO SERIAL DATA IN
SERVO SERIAL CLOCK
TAKE-UP PHOTO IN (TAPE BEGINNING DET)
SENSOR LED OUT
SUPPLY PHOTO IN (TAPE END DET)
DEW Ⓗ
CASSETTE SW ON Ⓛ
JOG 1/REEL (S)
JOG 2/REEL (T)
JOG Ⓗ/REEL Ⓛ
P10 (IN#)
P13 (IN3)
MATRIX OUT
RESET Ⓛ
P14 (IN4)
P17 (IN7)
POWER OFF Ⓗ
POWER DOWN Ⓗ
(TO PREVENT THE TAPE DAMAGE DURING SUB LOADING OR UNLOADING, BY MEANS OF THIS SIG.,LOADING MOTOR ROTATION SHOULD BE SLOW DOWN.)
SYSCON 12V
LOAD SPEED DOWN Ⓛ
LOAD Ⓗ
MOTOR ON Ⓗ
QR6012
LOADING MOTOR DRIVE
IC6005
P6009
LOADING MOTOR
BRAKE SOLENOID Ⓗ
QR6010 Q6002 ~ Q6006
SOLENOID DRIVE
13V REGULATOR
Q6024 Q6027
R6141
UNREG 22V
P6008
REEL BRAKE SOLENOID
EDIT Ⓗ
VV Ⓗ/EE Ⓛ
COMPULSIVE VHS Ⓛ
REC Ⓗ
COMPULSIVE COLOR Ⓗ
COMPULSIVE B/W Ⓛ
DELAYED REC Ⓛ
NOTCH Ⓗ
Hi-Fi MUTE Ⓗ
Hi-Fi REC Ⓗ
LIMITER ON Ⓛ
DOLBY ON Ⓛ
CH2 MUTE Ⓗ
CH2 AUDIO ERASE Ⓗ
CH2 DELAYED REC Ⓗ
CH2 EE Ⓛ
CH1 MUTE Ⓗ
CH1 AUDIO ERASE Ⓗ
CH1 DELAYED REC Ⓗ
CH1 EE Ⓛ
P6003 P963
P6002 P962
P6001 P961
TO VIDEO
TO AUDIO
QR6030
QR6029
QR3028
QR3027
FG/CTL SW
FG/CTL IN
(TO ACHIEVE THE AUTO BACK SPACE EDITING ACCURATELY,THE SHORT REWOUND TAPE AMOUNT IS DETECTED BY COUNTING THE CAPSTAN FG.)
IC6001
CAPSTAN FG
CTL SIG
FROM SERVO
SERIAL REMOTE IN
IC6007
WAVEFORM SHAPPER
FULL ERASE ON Ⓛ
SAFETY TAB ON Ⓛ
REC Ⓗ
QR6002
Q6009
QR6031 QR6005
EE ON Ⓗ
QR6001 QR6019
FULL ERASE OSC
T6001 Q6007
P6010
FULL ERASE HEAD
DIGITAL ON Ⓗ
MOTHER C.B.A
P6001 P961 P934 P3891
TO VIDEO(4)
IC6002
RESET
QR6026
ONE SHOT PULSE
IC6010
DECODER
P963 P6003
S-VHS Ⓗ
TENSION NG Ⓗ
FM Ⓗ
QR6016
DATA OUTPUT
IC6006
FROM MODE SELECT SW
PLAY Ⓛ
EJECT Ⓛ
STOP Ⓛ
STOP 2 Ⓛ
SW1
SW2
SW3
SW4
DECODER
SAFETY TAB SW
SAFETY TAB ON Ⓛ
(TO CARRY OUT SENSOR REC FUNCTION,WHEN SENSOR REC SW IS TURNED ON,UNIT STARTS RECORDING AUTOMATICALLY BY DETECTING INPUT VIDEO SIG)
EE VIDEO
VIDEO SIGNAL DETECT CIRCUIT
QR6015
REEL BRAKE SOLENOID Ⓛ
FROM Q6006-Ⓒ
PINCH ON Ⓛ
FROM Q6018-Ⓒ
(THIS IS USED FOR DETECTION OF SOLENOID WORKING CONDITION. IF IT IS LOST, UNIT GOES TO AUTO STOP MODE.)
TO POWER
P1203 P6012
POWER OFF Ⓛ
N.SW 5.4V
TO FRONT PANEL
P6205 P6004
QR6006
QR6007
IC6012
RESET
(FOR REEL SERVO VOLTAGE RESET)
D6022
L6022
IC6008
RESET
(FOR SOLENOIDE VOLTAGE RESET)
BACK UP SELECT SW
ON
OFF
SW6001
BACK-UP BATTERY

SERVO BLOCK DIAGRAM

CYLINDER SERVO SPEED LOOP CYLINDER SERVO PHASE LOOP CAPSTAN SERVO SPEED LOOP CAPSTAN S


IC2002
+S5V
NTSC Ⓗ
PAL Ⓗ
FWD Ⓗ
REV Ⓗ
Z
Y
DECODER
VR2001
NTSC 2H V·LOCK
VR2003
PAL V·LOCK
VR2203
NTSC PG
VR2201
PAL PG
VR2204
NTSC V·LOCK
VR2202
PAL V·LOCK
VR2205
FWD FIX
VR2206
REV FIX
SERVO VR C.B.A.
P2205
P2201
P2005
P2202
SLOW TRACKING
VR4903
FRONT JACK
P4902
P6208
P6201
P973
P963
P6003
NTSC Ⓛ
2H . 3H Ⓛ
FROM SYSTEM CTL
REV Ⓗ
EE VIDEO
IC2005
S5V
R29
IC2013
AMP
R2036 · R2037
C2049 · C2050
V·SYNC SEP
VSS
TRACKING FIX
VR2207
+5V
SERVO VR C.B.A.
TRACKING VR
VR4902
X2001 · Q2005
OSC
IC2008
7.16MHz
FE Ⓛ
IC2015
CTL HEAD
P2001
IC2006
QR2005
+B
REC START
HC
COS
IC 2003 (AN3726K)
HEAD CURR. CTL
P.B. H : ON
REWRITE : OFF
CIS
FWD (L) RVS (R)
R.S. FF
SHAPER
H : ON
PB
REC
AGC
TP2003 REC/PLAY 5.1Vp-p
TP2007 REC 5.1Vp-p
TP2008 PLAY 2.0Vp-p
TP2007
TP2008
TP2003
Q2006 BUFFER
Q2007 AMP
Q2008 BUFFER
CTL OUT
P2002
FROM SYSTEM CTL
REV Ⓗ
PB CTL
TO QR2003-Ⓑ
IC 2001
SLOW COMMAND
H. SW
SW GENE
H.SW
ROTARY PHASE
H. AMP SW
MODE DECODE
SERIAL DATA
SERIAL CLOCK
S. DATA
S. CLK
SLOW TR
H-SW GENERATOR
M.M.V.
1/2
FG
F.F.
PG
PG/FG SEPA
ARTIFICIAL V-SYNC TO VIDEO
ART V.M.M.
CYL DIGITAL SPEED CONTROL
CYL DIGITAL PHASE CONTROL
COMP SIG
REF SIG
D/A
MIX
NTSC Ⓛ
6H Ⓗ
COUNT DOWN
CTL PULSE GENE
DC INPUT
A/D
REC CTL AMP
DIGITAL TRACKING
P.B.
REC
CURR LIMIT
CAP REVERSE (H) STOP (M) FORWARD (L)
CAP DIGITAL PHASE CONTROL
CAP DIGITAL SPEED CONTROL
CAP FG
IC2016
AMP
DIRECTION DET
(+) CLAMP
REV (H) / FWD (L)

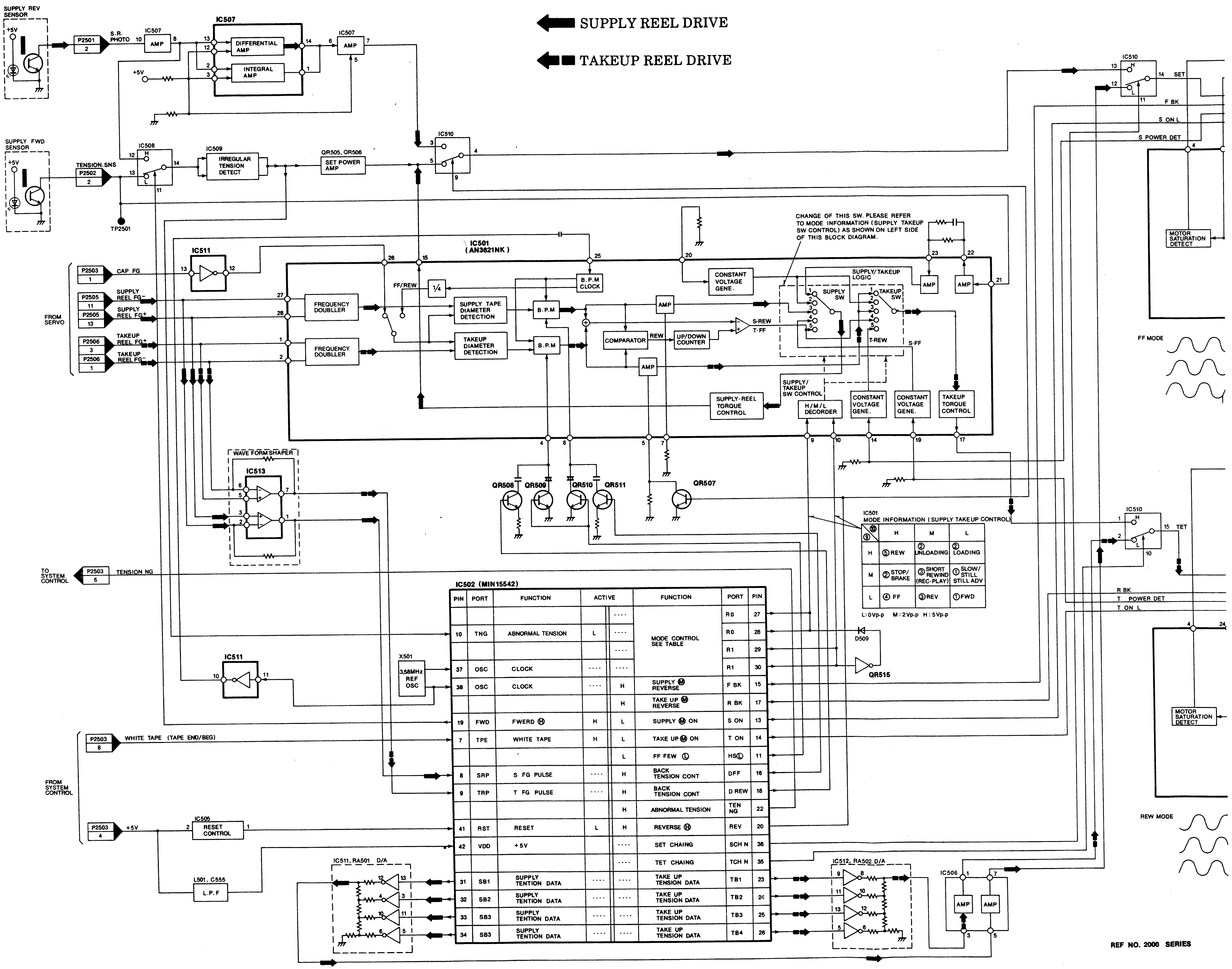
D LOOP ⇦□ CAPSTAN SERVO PHASE LOOP



41
H.SW
2
ROTARY PHASE
3
H. AMP SW
H. SW
ROTARY PHASE
H. AMP SW
TO VIDEO
SERIAL DATA 35
SERIAL CLOCK 34
ODE
ECODE
S. DATA
S. CLK
FROM SYSTEM CTL
30
PG / FG PULSE
9
P2003 10
P2003 1
P2003 4
P2003 7
P2003 9
P2003 3
2
1
17
18
7
15
8
9
TORQUE CONTROL
DIFFERENTIAL AMP
PG/FG
POSITION DET
SCHMIT
R2088
IC 2012
(DRUM DRIVE IC)
IC2012 - 1
IC2012 - 2
IC2012 - 17
IC2012 - 8
IC2012 - 9
N
S
M1
M2
M3
HALL IC
HE⁻
HE⁺
DD DRUM MOTOR
Q2010
X9 Ⓛ
UNREG 22 V
REGULATOR
Q2001, D2010
D2013
SERVO VR C.B.A.
SLOW FREE RUN
5V
VR2208
P2004 6
P2004 4
P2004 15
IC 2005 ①③㉓
2.5 Vp-p
CURR LIMIT 32
MOTOR CURRENT IS FEED BACK TO THE TORQUE CONTROL
15
23
3
1
2
24
MOTOR DRIVE
16
TORQUE CONTROL
DIFFERENTIAL AMPLIFIER
ERROR VOLTAGE
R2093
R2096
20
POSITION SIGNAL PROCESS
5
6
7
8
9
10
TORQUE DIRECTION
11
19
CAP REVERSE (H)
STOP (M)
FORWARD (L)
33
D/A
MIX
8
D/A
TP2011 REC/PLAY 4.6Vp-p
CAP REVERSE (H)
CAP STOP (M)
CAP FORWARD (L)
IC 2009
(CAPSTAN DRIVE IC)
P2004 7
P2004 9
P2004 10
P2004 12
P2004 11
P2004 13
H3⁻
H3⁺
H2⁻
H2⁺
H1⁻
H1⁺
DD CAPSTAN MOTOR
AP FG
COUNT DOWN
12
AMP
13
IC2016
3
AMP
1
TP 2011
CAP FG
14
15
16
AMP
17
P2004 3
FG 1
(90° PHASE DIFFERENCE)
P2004 5
FG 2

NOTE:
THIS DOES NOT HAVE FUNCTION OF RECORDING WITH 6H, BUT 6H PLAYBACK.

REEL SERVO BLOCK DIAGRAM


SUPPLY REEL DRIVE
TAKEUP REEL DRIVE
SUPPLY REV SENSOR
+5V
P2501
2
S.R. PHOTO
IC507
AMP
DIFFERENTIAL AMP
INTEGRAL AMP
SUPPLY FWD SENSOR
TENSION.SNS
P2502
TP2501
IC508
IC509
IRREGULAR TENSION DETECT
QR505, QR506
SET POWER AMP
IC510
IC511
IC501 (AN3621NK)
P2503
CAP FG
P2505
SUPPLY REEL FG−
SUPPLY REEL FG+
P2506
TAKEUP REEL FG+
TAKEUP REEL FG−
FROM SERVO
FREQUENCY DOUBLLER
FF/REW
1/4
SUPPLY TAPE DIAMETER DETECTION
TAKEUP DIAMETER DETECTION
B.P.M CLOCK
B.P.M
COMPARATOR
REW
UP/DOWN COUNTER
S-REW
T-FF
AMP
CONSTANT VOLTAGE GENE.
CHANGE OF THIS SW. PLEASE REFER TO MODE INFORMATION (SUPPLY TAKEUP SW CONTROL) AS SHOWN ON LEFT SIDE OF THIS BLOCK DIAGRAM.
SUPPLY/TAKEUP LOGIC
SUPPLY SW
TAKEUP SW
T-REW
S-FF
SUPPLY/TAKEUP SW CONTROL
SUPPLY-REEL TORQUE CONTROL
H/M/L DECORDER
TAKEUP TORQUE CONTROL
QR508
QR509
QR510
QR511
QR507
WAVE FORM SHAPER
IC513
TO SYSTEM CONTROL
TENSION NG
X501
3.58MHz REF OSC
D509
QR515
FROM SYSTEM CONTROL
WHITE TAPE (TAPE END/BEG)
+5V
IC505
RESET CONTROL
L501, C555
L.P.F
IC511, RA501 D/A
IC512, RA502 D/A
IC506
MOTOR SATURATION DETECT
SET
F BK
S ON L
S POWER DET
TET
R BK
T POWER DET
T ON L
FF MODE
REW MODE

IC502 (MIN15542)

PIN	PORT	FUNCTION	ACTIVE	ACTIVE	FUNCTION	PORT	PIN
				····	MODE CONTROL SEE TABLE	R0	27
10	TNG	ABNORMAL TENSION	L	····		R0	28
				····		R1	29
37	OSC	CLOCK	····	····		R1	30
38	OSC	CLOCK	····	H	SUPPLY Ⓜ REVERSE	F BK	15
				H	TAKE UP Ⓜ REVERSE	R BK	17
19	FWD	FWERD Ⓗ	H	L	SUPPLY Ⓜ ON	S ON	13
7	TPE	WHITE TAPE	H	L	TAKE UP Ⓜ ON	T ON	14
				L	FF FEW Ⓛ	HSⓁ	11
8	SRP	S FG PULSE	····	H	BACK TENSION CONT	DFF	16
9	TRP	T FG PULSE	····	H	BACK TENSION CONT	D REW	18
				H	ABNORMAL TENSION	TEN NG	22
41	RST	RESET	L	H	REVERSE Ⓗ	REV	20
42	VDD	+5V		····	SET CHAING	SCH N	36
				····	TET CHAING	TCH N	35
31	SB1	SUPPLY TENTION DATA	····	····	TAKE UP TENSION DATA	TB1	23
32	SB2	SUPPLY TENTION DATA	····	····	TAKE UP TENSION DATA	TB2	24
33	SB3	SUPPLY TENTION DATA	····	····	TAKE UP TENSION DATA	TB3	25
34	SB3	SUPPLY TENTION DATA	····	····	TAKE UP TENSION DATA	TB4	26

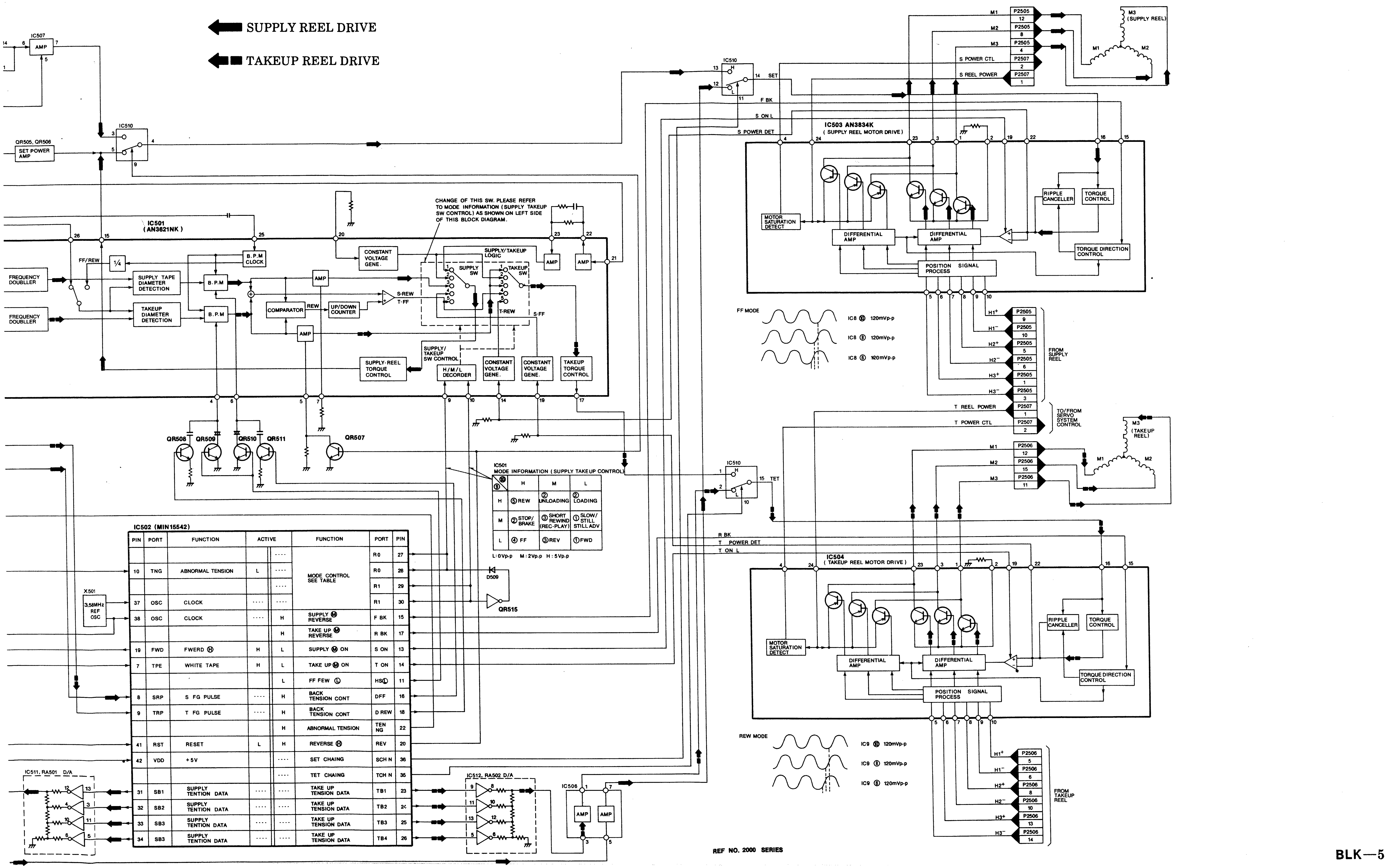
IC501
MODE INFORMATION (SUPPLY TAKEUP CONTROL)

⑩ / ⑨	H	M	L
H	⑤ REW	② UNLOADING	② LOADING
M	② STOP/ BRAKE	③ SHORT REWIND (REC-PLAY)	① SLOW/ STILL STILL ADV
L	④ FF	③ REV	① FWD

L: 0Vp-p M: 2Vp-p H: 5Vp-p

REF NO. 2000 SERIES

AM


SUPPLY REEL DRIVE
TAKEUP REEL DRIVE
IC507
AMP
IC510
QR505, QR506
SET POWER AMP
IC501
(AN3821NK)
FF/REW
¼
FREQUENCY DOUBLER
FREQUENCY DOUBLER
SUPPLY TAPE DIAMETER DETECTION
TAKEUP DIAMETER DETECTION
B.P.M CLOCK
B.P.M
B.P.M
AMP
COMPARATOR
REW
UP/DOWN COUNTER
S-REW
T-FF
AMP
CONSTANT VOLTAGE GENE.
CHANGE OF THIS SW. PLEASE REFER TO MODE INFORMATION (SUPPLY TAKEUP SW CONTROL) AS SHOWN ON LEFT SIDE OF THIS BLOCK DIAGRAM.
SUPPLY/TAKEUP LOGIC
SUPPLY SW
TAKEUP SW
T-REW
S-FF
AMP
AMP
SUPPLY-REEL TORQUE CONTROL
SUPPLY/TAKEUP SW CONTROL
H/M/L DECORDER
CONSTANT VOLTAGE GENE.
CONSTANT VOLTAGE GENE.
TAKEUP TORQUE CONTROL
QR508
QR509
QR510
QR511
QR507
X501
3.58MHz REF OSC
D509
QR515
IC511, RA501 D/A
IC512, RA502 D/A
IC506
AMP
AMP
SET
F BK
S ON L
S POWER DET
IC503 AN3834K
(SUPPLY REEL MOTOR DRIVE)
MOTOR SATURATION DETECT
DIFFERENTIAL AMP
DIFFERENTIAL AMP
POSITION SIGNAL PROCESS
RIPPLE CANCELLER
TORQUE CONTROL
TORQUE DIRECTION CONTROL
M1
M2
M3
S POWER CTL
S REEL POWER
P2505
P2507
M3 (SUPPLY REEL)
FF MODE
IC8 ⑩ 120mVp-p
IC8 ⑨ 120mVp-p
IC8 ⑧ 120mVp-p
H1+
H1−
H2+
H2−
H3+
H3−
FROM SUPPLY REEL
T REEL POWER
T POWER CTL
TO/FROM SERVO SYSTEM CONTROL
M3 (TAKEUP REEL)
P2506
TET
R BK
T POWER DET
T ON L
IC504
(TAKEUP REEL MOTOR DRIVE)
REW MODE
IC9 ⑩ 120mVp-p
IC9 ⑨ 120mVp-p
IC9 ⑧ 120mVp-p
FROM TAKEUP REEL

IC501
MODE INFORMATION (SUPPLY TAKEUP CONTROL)

⑩ / ⑨	H	M	L
H	⑤REW	② UNLOADING	② LOADING
M	② STOP/ BRAKE	③ SHORT REWIND (REC-PLAY)	① SLOW/ STILL STILL ADV
L	④ FF	③REV	①FWD

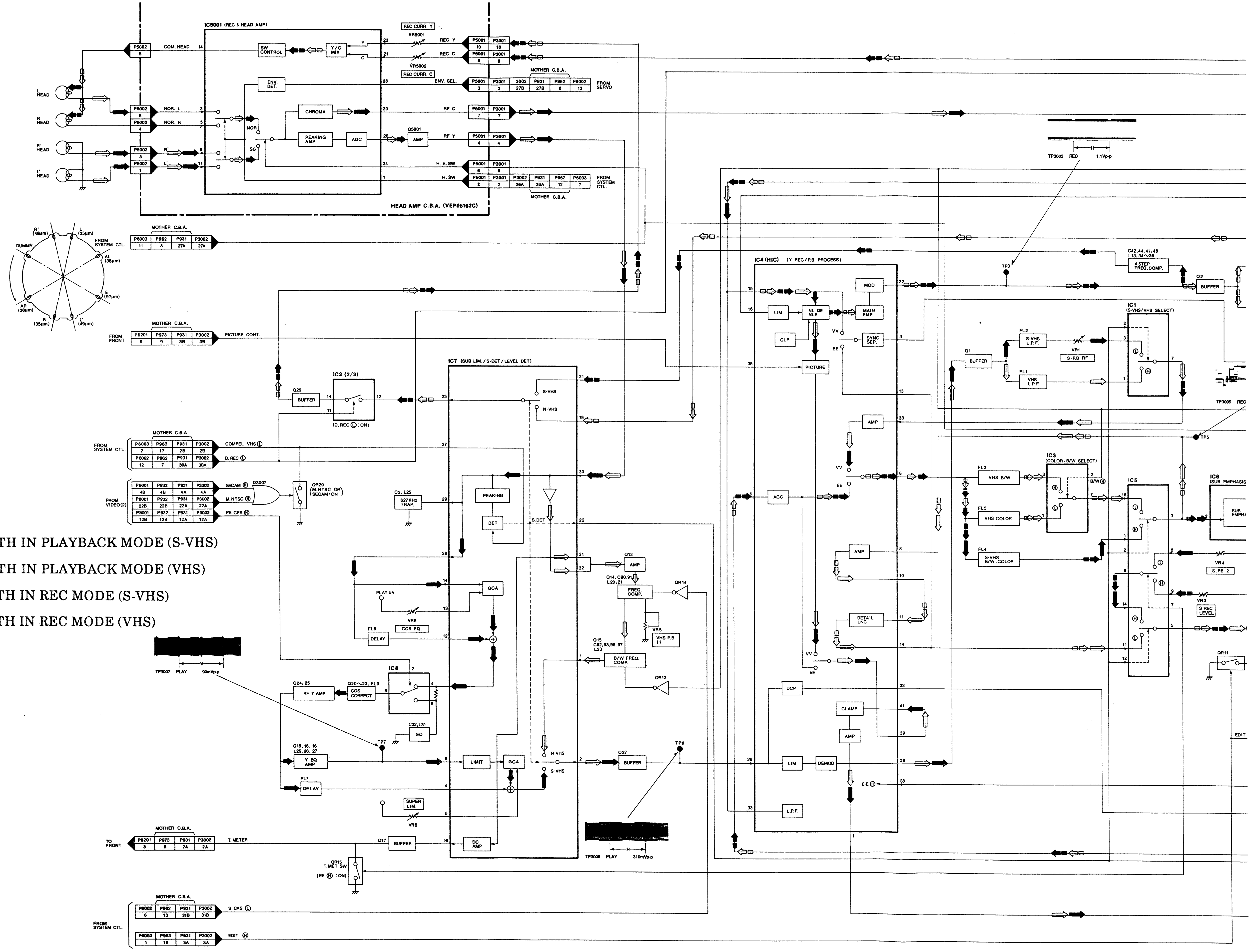
L: 0Vp-p M: 2Vp.p H: 5Vp.p

IC502 (MIN15542)

PIN	PORT	FUNCTION	ACTIVE		FUNCTION	PORT	PIN
				····	MODE CONTROL SEE TABLE	R0	27
10	TNG	ABNORMAL TENSION	L	····		R0	28
				····		R1	29
37	OSC	CLOCK	····	····		R1	30
38	OSC	CLOCK	····	H	SUPPLY Ⓜ REVERSE	F BK	15
				H	TAKE UP Ⓜ REVERSE	R BK	17
19	FWD	FWERD Ⓗ	H	L	SUPPLY Ⓜ ON	S ON	13
7	TPE	WHITE TAPE	H	L	TAKE UP Ⓜ ON	T ON	14
				L	FF FEW Ⓛ	HSⓁ	11
8	SRP	S FG PULSE	····	H	BACK TENSION CONT	DFF	16
9	TRP	T FG PULSE	····	H	BACK TENSION CONT	D REW	18
				H	ABNORMAL TENSION	TEN NG	22
41	RST	RESET	L	H	REVERSE Ⓗ	REV	20
42	VDD	+5V		····	SET CHAING	SCH N	36
				····	TET CHAING	TCH N	35
31	SB1	SUPPLY TENTION DATA	····	····	TAKE UP TENSION DATA	TB1	23
32	SB2	SUPPLY TENTION DATA	····	····	TAKE UP TENSION DATA	TB2	24
33	SB3	SUPPLY TENTION DATA	····	····	TAKE UP TENSION DATA	TB3	25
34	SB3	SUPPLY TENTION DATA	····	····	TAKE UP TENSION DATA	TB4	26

REF NO. 2000 SERIES

VIDEO (1) BLOCK DIAGRAM

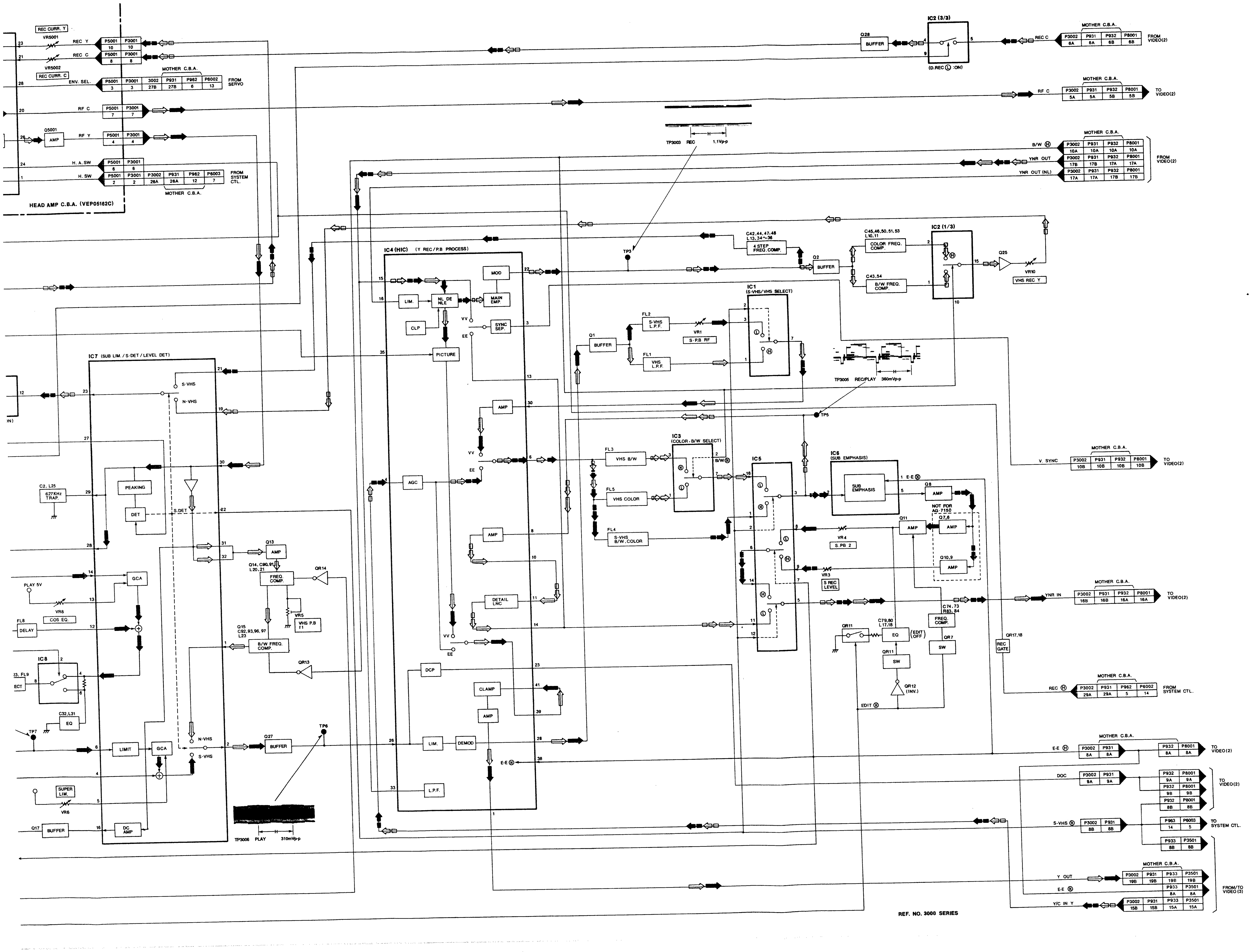

IC5001 (REC & HEAD AMP)
SW CONTROL
Y/C MIX
ENV. DET.
CHROMA
PEAKING AMP
AGC
Q5001 AMP
COM. HEAD
NOR. L
NOR. R
NOR
SS
L HEAD
R HEAD
R' HEAD
L' HEAD
REC CURR. Y
VR5001
REC Y
REC C
VR5002
REC CURR. C
ENV. SEL.
RF C
RF Y
H. A. SW
H. SW
MOTHER C.B.A.
FROM SERVO
FROM SYSTEM CTL.
HEAD AMP C.B.A. (VEP05162C)
DUMMY
FROM FRONT
PICTURE CONT.
IC2 (2/3)
Q29 BUFFER
(D. REC Ⓛ : ON)
IC7 (SUB LIM. / S-DET / LEVEL DET)
S-VHS
N-VHS
PEAKING
DET
S.DET
COMPEL VHS Ⓛ
D. REC Ⓛ
FROM VIDEO(2)
SECAM Ⓗ
M.NTSC Ⓗ
PB CPS Ⓗ
D3007
QR20 (M.NTSC OFF / SECAM : ON)
C2, L25 627KHz TRAP.
PLAY 5V
VR8
COS EQ.
FL8 DELAY
GCA
IC8
Q24, 25 RF Y AMP
Q20~23, FL9 COS. CORRECT
C32, L31 EQ
TP7
Q19, 18, 16 L29, 28, 27 Y EQ AMP
FL7 DELAY
LIMIT
SUPER LIM.
VR6
DC AMP
Q17 BUFFER
T. METER
TO FRONT
QR15 T.MET SW (EE Ⓗ : ON)
Q13 AMP
Q14, C90, 91 L20, 21 FREQ. COMP.
QR14
VR5
VHS P.B
Q15 C92, 93, 96, 97 L23
B/W FREQ. COMP.
QR13
Q27 BUFFER
TP6
TP3007 PLAY 90mVp-p
TP3006 PLAY 310mVp-p
S. CAS Ⓛ
EDIT Ⓗ
IC4 (HIC) (Y REC/P.B PROCESS)
MOD
LIM.
NL DE NLE
MAIN EMP.
CLP
SYNC SEP.
PICTURE
AMP
AGC
DETAIL LNC
DCP
CLAMP
DEMOD
L.P.F.
VV
EE
E-E Ⓗ
TP3003 REC 1.1Vp-p
TP3
C42, 44, 47, 48 L13, 34~36 4 STEP FREQ. COMP.
Q2 BUFFER
IC1 (S-VHS/VHS SELECT)
Q1 BUFFER
FL2 S-VHS L.P.F.
VR1 S-P.B RF
FL1 VHS L.P.F.
TP3005 REC
TP5
IC3 (COLOR-B/W SELECT)
FL3 VHS B/W
FL5 VHS COLOR
FL4 S-VHS B/W. COLOR
B/W Ⓗ
IC5
IC6 (SUB EMPHASIS)
SUB EMPH
VR4 S.PB 2
VR3 S REC LEVEL
QR11
EDIT

◀■ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)

◁ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)

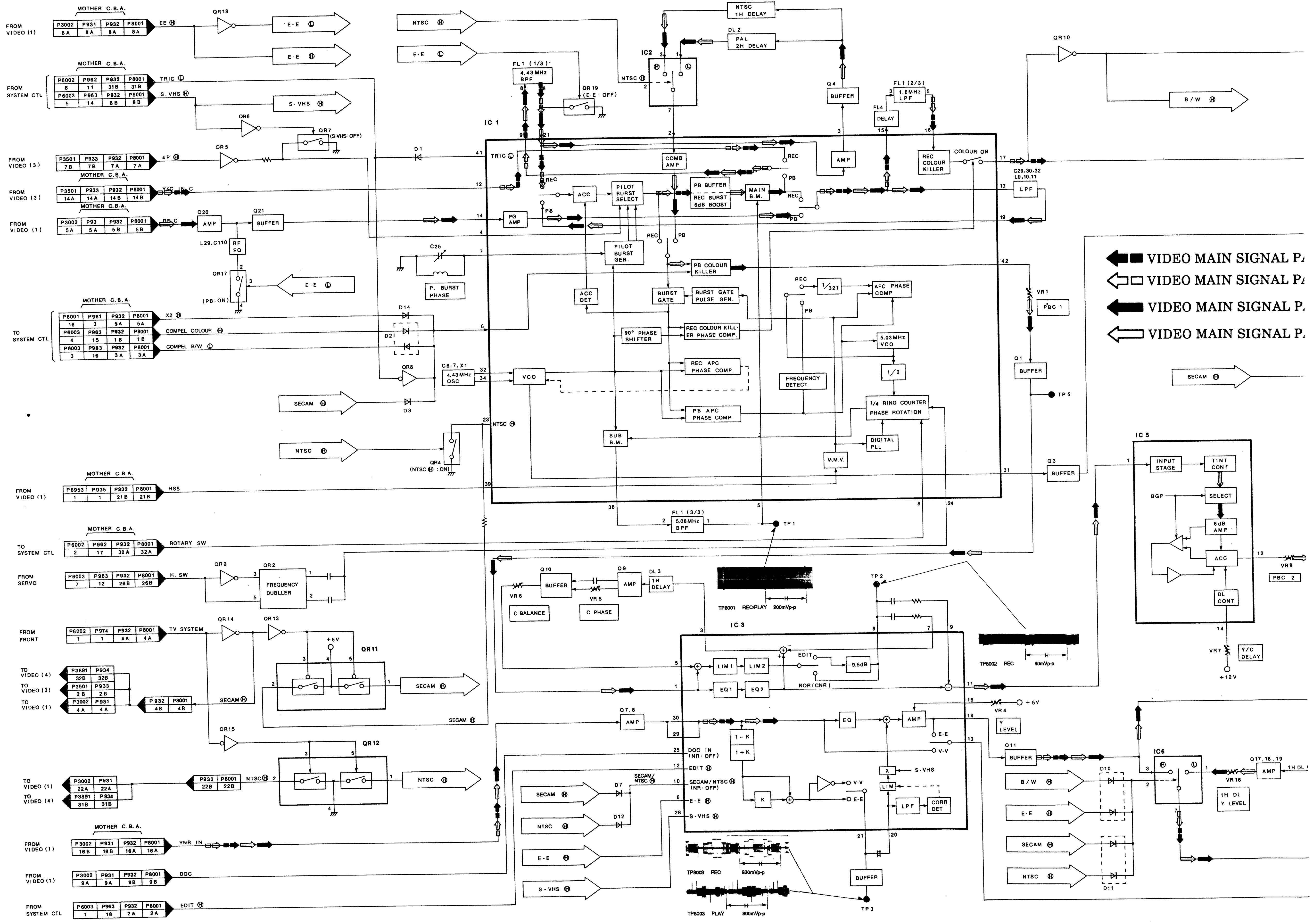
◀■■ VIDEO MAIN SIGNAL PATH IN REC MODE (S-VHS)

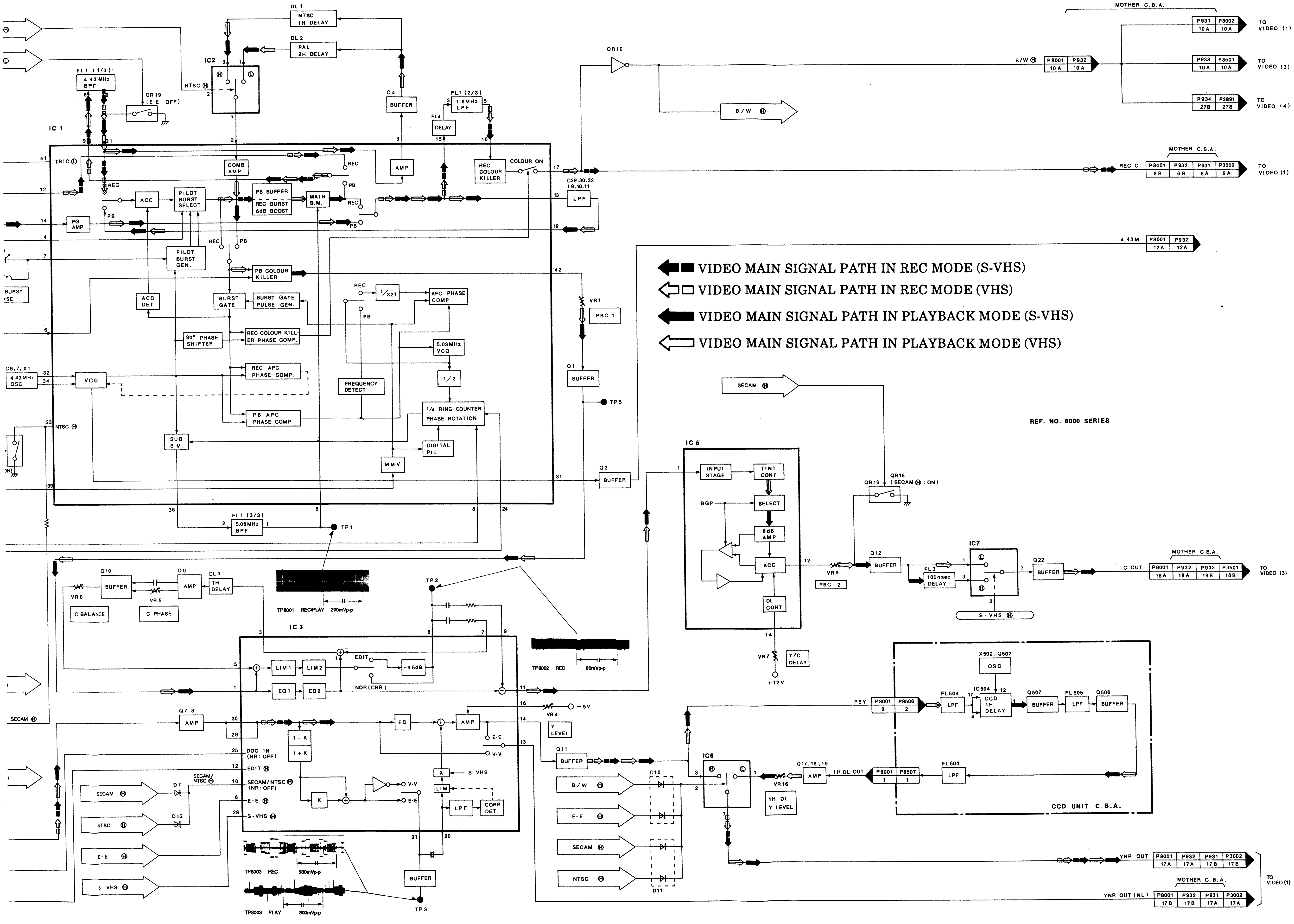
◁□ VIDEO MAIN SIGNAL PATH IN REC MODE (VHS)


HEAD AMP C.B.A. (VEP05162C)
REC CURR. Y
VR5001
REC Y
REC C
VR5002
REC CURR. C
ENV. SEL.
RF C
Q5001
AMP
RF Y
H. A. SW
H. SW
P5001
P3001
P3002
P931
P932
P962
P963
P933
P6002
P6003
P8001
P3501
MOTHER C.B.A.
FROM SERVO
FROM SYSTEM CTL.
FROM VIDEO(2)
TO VIDEO(2)
TO SYSTEM CTL.
FROM/TO VIDEO (3)
Q28
BUFFER
IC2 (3/3)
(D.REC Ⓛ :ON)
TP3003 REC 1.1Vp-p
B/W Ⓗ
YNR OUT
YNR OUT (NL)
C42,44,47,48
L13,34~36
4 STEP FREQ.COMP.
TP3
Q2
BUFFER
C45,46,50,51,53
L10,11
COLOR FREQ. COMP.
C43,54
B/W FREQ. COMP.
IC2 (1/3)
Q25
VR10
VHS REC Y
IC4 (HIC) (Y REC/P.B PROCESS)
LIM.
NL DE NLE
MOD
MAIN EMP.
CLP
SYNC SEP.
VV
EE
PICTURE
AMP
AGC
DETAIL LNC
DCP
CLAMP
DEMOD
L.P.F.
E-E Ⓗ
IC1 (S-VHS/VHS SELECT)
FL2
S-VHS L.P.F.
VR1
S-P.B RF
Q1
BUFFER
FL1
VHS L.P.F.
TP3005 REC/PLAY 360mVp-p
TP5
IC3 (COLOR, B/W SELECT)
FL3
VHS B/W
FL5
VHS COLOR
FL4
S-VHS B/W, COLOR
IC5
IC6 (SUB EMPHASIS)
SUB EMPHASIS
Q8
AMP
NOT FOR AG-7150
Q7,6
Q11
Q10,9
VR4
S.PB 2
VR3
S REC LEVEL
C74,73
R83, 84
FREQ. COMP.
QR7
SW
QR11
C79,80
L17,18
EQ
(EDIT OFF)
SW
QR12 (INV.)
EDIT Ⓗ
QR17,18
REC GATE
V. SYNC
YNR IN
REC Ⓗ
DOC
S-VHS Ⓗ
Y OUT
Y/C IN Y
IC7 (SUB LIM./S-DET/LEVEL DET)
S-VHS
N-VHS
PEAKING
DET
S.DET
C2, L25
627KHz TRAP.
Q13
Q14, C90,91
L20,21
FREQ. COMP.
QR14
VR5
VHS P.B f1
Q15
C92,93,96,97
L23
B/W FREQ. COMP.
QR13
GCA
PLAY 5V
VR8
COS EQ.
FL8
DELAY
IC8
23, FL9
ECT
C32,L31
EQ
TP7
LIMIT
SUPER LIM.
VR6
Q17
BUFFER
DC AMP
Q27
BUFFER
TP6
TP3006 PLAY 310mVp-p

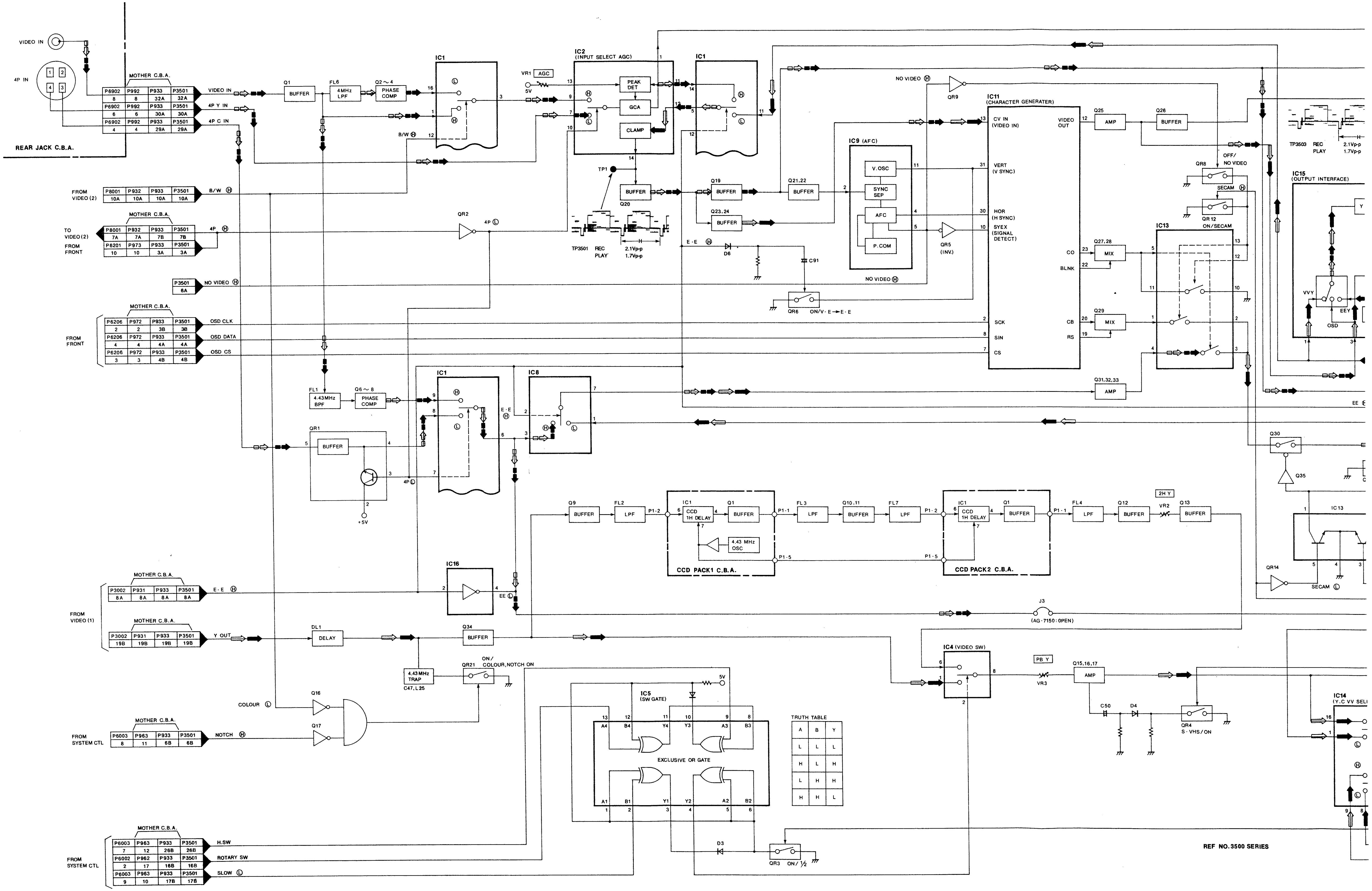
REF. NO. 3000 SERIES

VIDEO (2) BLOCK DIAGRAM


MOTHER C.B.A.
FROM VIDEO (1)
FROM SYSTEM CTL
FROM VIDEO (3)
TO SYSTEM CTL
FROM SERVO
FROM FRONT
TO VIDEO (4)
TO VIDEO (3)
TO VIDEO (1)
EE Ⓗ
TRIC Ⓛ
S. VHS Ⓗ
4P Ⓗ
Y/C IN C
RF C
X2 Ⓗ
COMPEL COLOUR Ⓗ
COMPEL B/W Ⓛ
HSS
ROTARY SW
H. SW
TV SYSTEM
YNR IN
DOC
EDIT Ⓗ
E-E Ⓛ
E-E Ⓗ
S-VHS Ⓗ
NTSC Ⓗ
SECAM Ⓗ
B/W Ⓗ
QR18
QR6
QR7 (S-VHS : OFF)
QR5
Q20 AMP
Q21 BUFFER
RF EQ
L29, C110
QR17 (PB : ON)
QR19 (E-E : OFF)
QR8
QR4 (NTSC Ⓗ : ON)
QR2 FREQUENCY DUBLLER
QR14
QR13
QR11
QR12
QR15
QR10
FL1 (1/3) 4.43 MHz BPF
FL1 (2/3) 1.6 MHz LPF
FL1 (3/3) 5.06 MHz BPF
FL4 DELAY
DL1 NTSC 1H DELAY
DL2 PAL 2H DELAY
DL3 1H DELAY
IC1
IC2
IC3
IC5
IC6
COMB AMP
ACC
PILOT BURST SELECT
PB BUFFER
REC BURST 6dB BOOST
MAIN B.M.
PG AMP
PILOT BURST GEN.
P. BURST PHASE
C25
PB COLOUR KILLER
ACC DET
BURST GATE
BURST GATE PULSE GEN.
90° PHASE SHIFTER
REC COLOUR KILLER PHASE COMP.
REC APC PHASE COMP.
PB APC PHASE COMP.
VCO
C6, 7, X1 4.43 MHz OSC
SUB B.M.
M.M.V.
DIGITAL PLL
1/4 RING COUNTER PHASE ROTATION
1/2
5.03 MHz VCO
FREQUENCY DETECT.
AFC PHASE COMP
1/321
REC COLOUR KILLER
COLOUR ON
LPF
C29, 30, 32 L9, 10, 11
Q4 BUFFER
AMP
VR1
PBC 1
Q1 BUFFER
TP5
Q3 BUFFER
TP1
TP2
TP3
Q10 BUFFER
Q9 AMP
VR6
VR5
C BALANCE
C PHASE
TP8001 REC/PLAY 200mVp-p
TP8002 REC 60mVp-p
TP8003 REC 930mVp-p
TP8003 PLAY 800mVp-p
LIM 1
LIM 2
EQ 1
EQ 2
EDIT
−9.5dB
NOR (CNR)
Q7, 8 AMP
1 − K
1 + K
K
EQ
V-V
E-E
S-VHS
X
LIM
LPF
CORR DET
DOC IN (NR : OFF)
EDIT Ⓗ
SECAM/NTSC Ⓗ (NR : OFF)
SECAM/NTSC Ⓗ
D7
D12
D1
D3
D14
D2
D10
D11
VR4
+5V
Y LEVEL
Q11 BUFFER
INPUT STAGE
TINT CONT
SELECT
BGP
6dB AMP
ACC
DL CONT
VR7
Y/C DELAY
+12V
VR9
PBC 2
Q17, 18, 19 AMP
VR16
1H DL Y LEVEL
1H DL
VIDEO MAIN SIGNAL PA
VIDEO MAIN SIGNAL PA
VIDEO MAIN SIGNAL P.
VIDEO MAIN SIGNAL P.

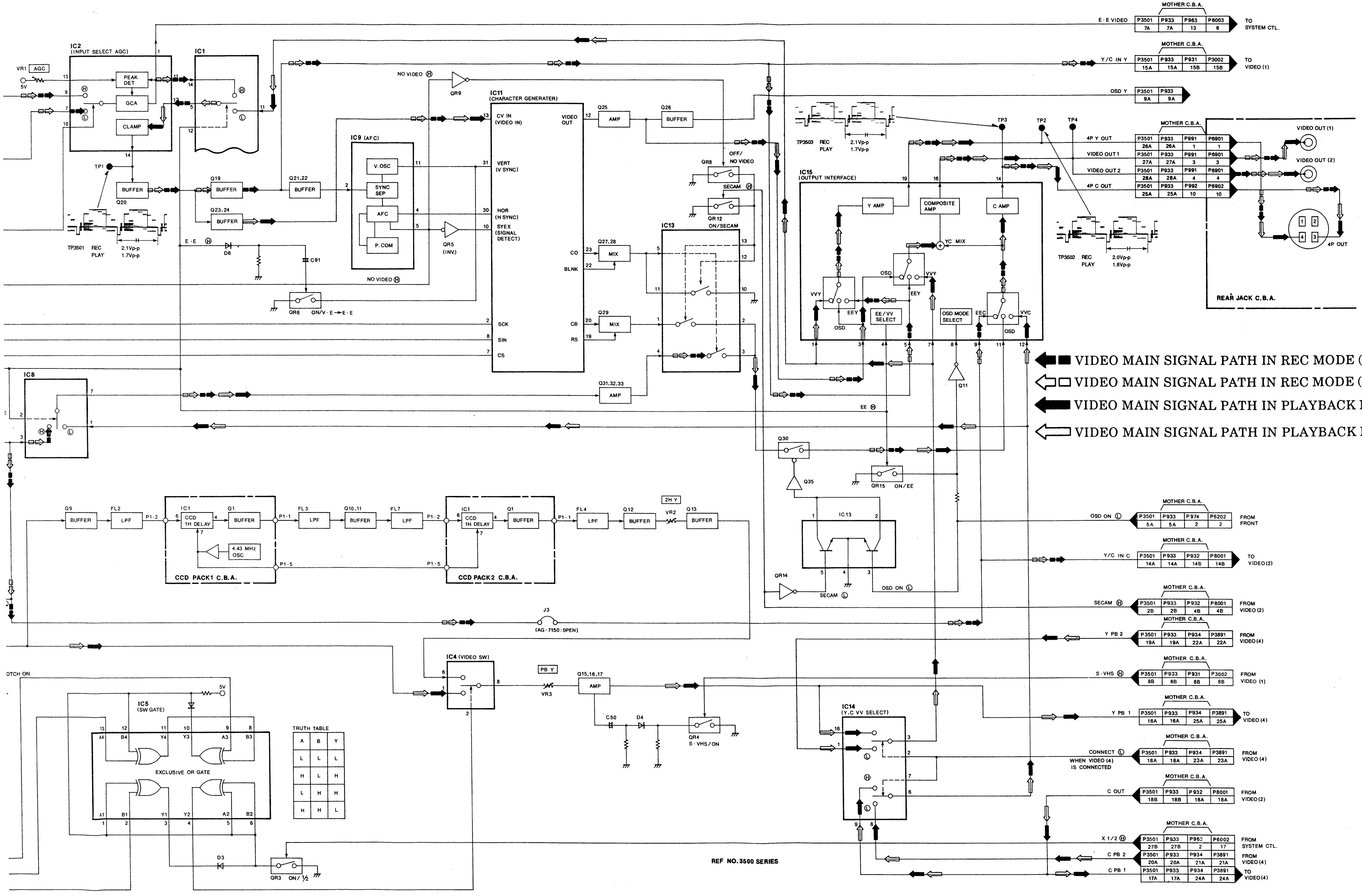

■■ VIDEO MAIN SIGNAL PATH IN REC MODE (S-VHS)
□□ VIDEO MAIN SIGNAL PATH IN REC MODE (VHS)
■ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)
□ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)
REF. NO. 8000 SERIES
IC 1
IC2
IC3
IC 5
IC6
IC7
DL 1
NTSC 1H DELAY
DL 2
PAL 2H DELAY
FL1 (1/3)
4.43 MHz BPF
QR 19 (E-E : OFF)
NTSC ⊕
Q4
BUFFER
FL1 (2/3)
1.6MHz LPF
FL4
DELAY
TRIC Ⓛ
COMB AMP
AMP
REC COLOUR KILLER
COLOUR ON
REC
PB
ACC
PILOT BURST SELECT
PB BUFFER
REC BURST 6dB BOOST
MAIN B.M.
PG AMP
PILOT BURST GEN.
PB COLOUR KILLER
ACC DET
BURST GATE
BURST GATE PULSE GEN.
1/321
AFC PHASE COMP
90° PHASE SHIFTER
REC COLOUR KILLER PHASE COMP.
5.03MHz VCO
C6,7, X1
4.43MHz OSC
VCO
REC APC PHASE COMP.
1/2
FREQUENCY DETECT.
PB APC PHASE COMP.
1/4 RING COUNTER PHASE ROTATION
SUB B.M.
DIGITAL PLL
M.M.V.
BURST BASE
C29,30,32 L9,10,11
LPF
QR10
B/W ⊕
P8001 P932 10A 10A
MOTHER C.B.A.
P931 P3002 10A 10A TO VIDEO (1)
P933 P3501 10A 10A TO VIDEO (3)
P934 P3891 27B 27B TO VIDEO (4)
REC C
P8001 P932 P931 P3002 6B 6B 6A 6A TO VIDEO (1)
4.43M
P8001 P932 12A 12A
VR1
PBC 1
Q1
BUFFER
TP 5
Q3
BUFFER
FL1 (3/3)
5.06MHz BPF
TP 1
TP8001 REC/PLAY 200mVp-p
SECAM ⊕
INPUT STAGE
TINT CONT
BGP
SELECT
6dB AMP
ACC
DL CONT
VR9
PBC 2
VR7
Y/C DELAY
+12V
QR16
QR16 (SECAM ⊕ : ON)
Q12
BUFFER
FL3
100nsec DELAY
S-VHS ⊕
Q22
BUFFER
C OUT
P8001 P932 P933 P3501 18A 18A 18B 18B TO VIDEO (3)
Q10
BUFFER
VR6
C BALANCE
Q9
AMP
VR5
C PHASE
DL 3
1H DELAY
TP 2
TP8002 REC 60mVp-p
LIM 1
LIM 2
EDIT
-9.5dB
EQ 1
EQ 2
NOR (CNR)
VR4
+5V
Y LEVEL
Q7,8
AMP
EQ
1-K
1+K
K
E-E
V-V
S-VHS
LIM
LPF
CORR DET
DOC IN (NR : OFF)
EDIT ⊕
SECAM/NTSC ⊕ (NR : OFF)
E-E ⊕
S-VHS ⊕
SECAM/NTSC ⊕
D7
D12
SECAM ⊕
NTSC ⊕
E-E ⊕
S-VHS ⊕
BUFFER
TP 3
TP8003 REC 930mVp-p
TP8003 PLAY 800mVp-p
Q11
BUFFER
B/W ⊕
E-E ⊕
SECAM ⊕
NTSC ⊕
D10
D11
Q17,18,19
AMP
1H DL OUT
VR16
1H DL Y LEVEL
PBY
P8001 P8506 2 2
P8001 P8507 1 1
X502, Q502
OSC
FL504
LPF
IC504
CCD 1H DELAY
Q507
BUFFER
FL505
LPF
Q506
BUFFER
FL503
LPF
CCD UNIT C.B.A.
YNR OUT
P8001 P932 P931 P3002 17A 17A 17B 17B
MOTHER C.B.A.
TO VIDEO (1)
YNR OUT (NL)
P8001 P932 P931 P3002 17B 17B 17A 17A

VIDEO (3) BLOCK DIAGRAM


VIDEO IN
4P IN
REAR JACK C.B.A.
MOTHER C.B.A.
P6902 P992 P933 P3501
VIDEO IN
4P Y IN
4P C IN
FROM VIDEO (2)
P8001 P932 P933 P3501
B/W Ⓗ
TO VIDEO (2)
FROM FRONT
4P Ⓗ
P3501 6A NO VIDEO Ⓗ
OSD CLK
OSD DATA
OSD CS
Q1 BUFFER
FL6 4MHz LPF
Q2~4 PHASE COMP
IC1
IC2 (INPUT SELECT AGC)
VR1 AGC
PEAK DET
GCA
CLAMP
TP1
BUFFER
Q20
TP3501 REC PLAY
2.1Vp-p
1.7Vp-p
QR2
4P Ⓛ
Q19 BUFFER
Q21,22 BUFFER
Q23,24 BUFFER
E·E Ⓗ
D6
C91
QR6 ON/V·E→E·E
IC9 (AFC)
V.OSC
SYNC SEP
AFC
P.COM
QR5 (INV.)
NO VIDEO Ⓗ
QR9
IC11 (CHARACTER GENERATER)
CV IN (VIDEO IN)
VIDEO OUT
VERT (V SYNC)
HOR (H SYNC)
SYEX (SIGNAL DETECT)
SCK
SIN
CS
CO
BLNK
CB
RS
Q25 AMP
Q26 BUFFER
TP3503 REC PLAY
OFF/NO VIDEO
QR8
SECAM Ⓗ
QR12 ON/SECAM
IC13
Q27,28 MIX
Q29 MIX
Q31,32,33 AMP
IC15 (OUTPUT INTERFACE)
VVY
EEY
OSD
FL1 4.43MHz BPF
Q6~8 PHASE COMP
IC8
E·E Ⓗ
QR1 BUFFER
+5V
Q30
Q35
IC16
EE Ⓛ
Q9 BUFFER
FL2 LPF
P1-2
IC1 CCD 1H DELAY
Q1 BUFFER
4.43 MHz OSC
P1-1
P1-5
CCD PACK1 C.B.A.
FL3 LPF
Q10,11 BUFFER
FL7 LPF
CCD PACK2 C.B.A.
FL4 LPF
Q12 BUFFER
2H Y
VR2
Q13 BUFFER
IC13
QR14
SECAM Ⓛ
FROM VIDEO (1)
P3002 P931 P933 P3501
E·E Ⓗ
Y OUT
DL1 DELAY
Q34 BUFFER
J3 (AG-7150: OPEN)
4.43MHz TRAP C47,L25
QR21 ON/COLOUR,NOTCH ON
IC4 (VIDEO SW)
PB Y
VR3
Q15,16,17 AMP
C50
D4
QR4 S·VHS/ON
IC14 (Y.C VV SEL
COLOUR Ⓛ
Q16
Q17
FROM SYSTEM CTL
P6003 P963 P933 P3501
NOTCH Ⓗ
IC5 (SW GATE)
5V
EXCLUSIVE OR GATE
D3
QR3 ON/½
H.SW
ROTARY SW
SLOW Ⓛ
P6002 P962
REF NO.3500 SERIES

TRUTH TABLE

A	B	Y
L	L	L
H	L	H
L	H	H
H	H	L


IC2 (INPUT SELECT AGC)
VR1 AGC
5V
PEAK DET
GCA
CLAMP
IC1
TP1
BUFFER
Q20
Q19
BUFFER
Q21,22
BUFFER
Q23,24
BUFFER
TP3501 REC PLAY 2.1Vp-p 1.7Vp-p
E·E Ⓗ
D6
C91
QR6 ON/V·E→E·E
IC9 (AFC)
V.OSC
SYNC SEP
AFC
P.COM
QR5 (INV.)
NO VIDEO Ⓗ
QR9
IC11 (CHARACTER GENERATER)
CV IN (VIDEO IN)
VIDEO OUT
VERT (V SYNC)
HOR (H SYNC)
SYEX (SIGNAL DETECT)
CO
BLNK
CB
RS
SCK
SIN
CS
Q25 AMP
Q26 BUFFER
Q27,28 MIX
Q29 MIX
Q31,32,33 AMP
IC13
QR8 OFF/NO VIDEO
SECAM Ⓗ
QR12 ON/SECAM
E·E VIDEO
Y/C IN Y
OSD Y
MOTHER C.B.A.
P3501 7A P933 7A P963 13 P6003 6 TO SYSTEM CTL.
P3501 15A P933 15A P931 15B P3002 15B TO VIDEO (1)
P3501 9A P933 9A
TP3503 REC PLAY 2.1Vp-p 1.7Vp-p
TP3 TP2 TP4
4P Y OUT P3501 26A P933 26A P991 1 P6901 1
VIDEO OUT 1 P3501 27A P933 27A P991 3 P6901 3
VIDEO OUT 2 P3501 28A P933 28A P991 4 P6901 4
4P C OUT P3501 25A P933 25A P992 10 P6902 10
VIDEO OUT (1)
VIDEO OUT (2)
4P OUT
REAR JACK C.B.A.
IC15 (OUTPUT INTERFACE)
Y AMP
COMPOSITE AMP
C AMP
YC MIX
VVY EEY OSD
EE/VV SELECT
OSD MODE SELECT
EEC VVC OSD
Q11
TP3502 REC PLAY 2.0Vp-p 1.6Vp-p
IC8
EE Ⓗ
Q30
Q35
QR15 ON/EE
IC13
QR14
SECAM Ⓛ
OSD ON Ⓛ
OSD ON Ⓛ P3501 5A P933 5A P974 2 P6202 2 FROM FRONT
Y/C IN C P3501 14A P933 14A P932 14B P8001 14B TO VIDEO (2)
SECAM Ⓗ P3501 2B P933 2B P932 4B P8001 4B FROM VIDEO (2)
Y PB 2 P3501 19A P933 19A P934 22A P3891 22A FROM VIDEO (4)
S·VHS Ⓗ P3501 8B P933 8B P931 8B P3002 8B FROM VIDEO (1)
Y PB 1 P3501 16A P933 16A P934 25A P3891 25A TO VIDEO (4)
CONNECT Ⓛ WHEN VIDEO (4) IS CONNECTED P3501 18A P933 18A P934 23A P3891 23A FROM VIDEO (4)
C OUT P3501 18B P933 18B P932 18A P8001 18A FROM VIDEO (2)
X 1/2 Ⓗ P3501 27B P933 27B P962 2 P6002 17 FROM SYSTEM CTL.
C PB 2 P3501 20A P933 20A P934 21A P3891 21A FROM VIDEO (4)
C PB 1 P3501 17A P933 17A P934 24A P3891 24A TO VIDEO (4)
Q9 BUFFER
FL2 LPF
P1·2
IC1 CCD 1H DELAY
Q1 BUFFER
4.43 MHz OSC
P1·1
P1·5
CCD PACK1 C.B.A.
FL3 LPF
Q10,11 BUFFER
FL7 LPF
CCD PACK2 C.B.A.
FL4 LPF
Q12 BUFFER
2H Y
VR2
Q13 BUFFER
J3 (AG·7150: OPEN)
IC4 (VIDEO SW)
PB Y
VR3
Q15,16,17 AMP
C50
D4
QR4 S·VHS/ON
IC14 (Y.C VV SELECT)
OTCH ON
IC5 (SW GATE)
5V
EXCLUSIVE OR GATE
A4 B4 Y4 Y3 A3 B3
A1 B1 Y1 Y2 A2 B2
TRUTH TABLE
A B Y
L L L
H L H
L H H
H H L
D3
QR3 ON/½

⬛■ VIDEO MAIN SIGNAL PATH IN REC MODE (S-VHS)

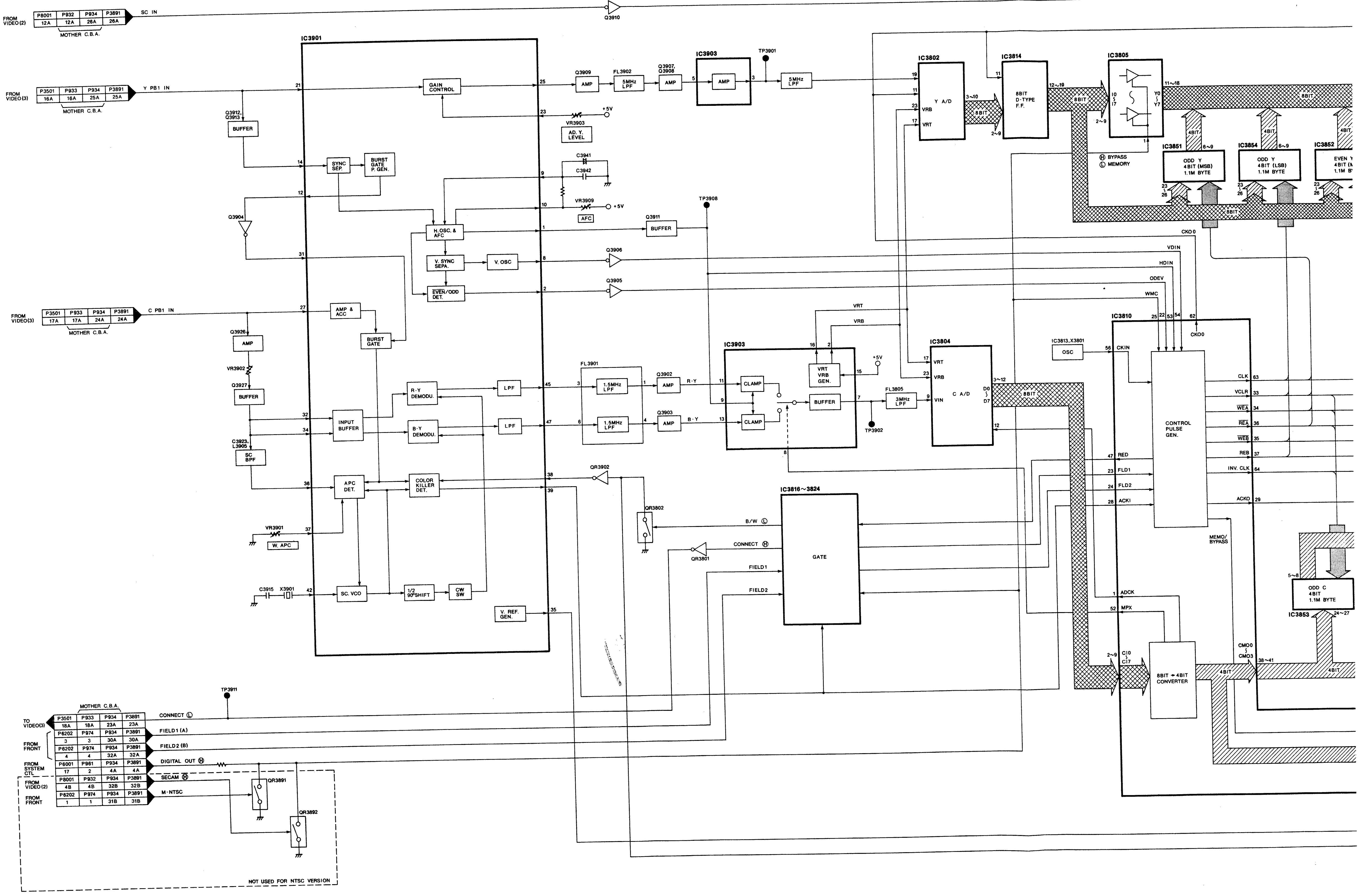
⇦□ VIDEO MAIN SIGNAL PATH IN REC MODE (VHS)

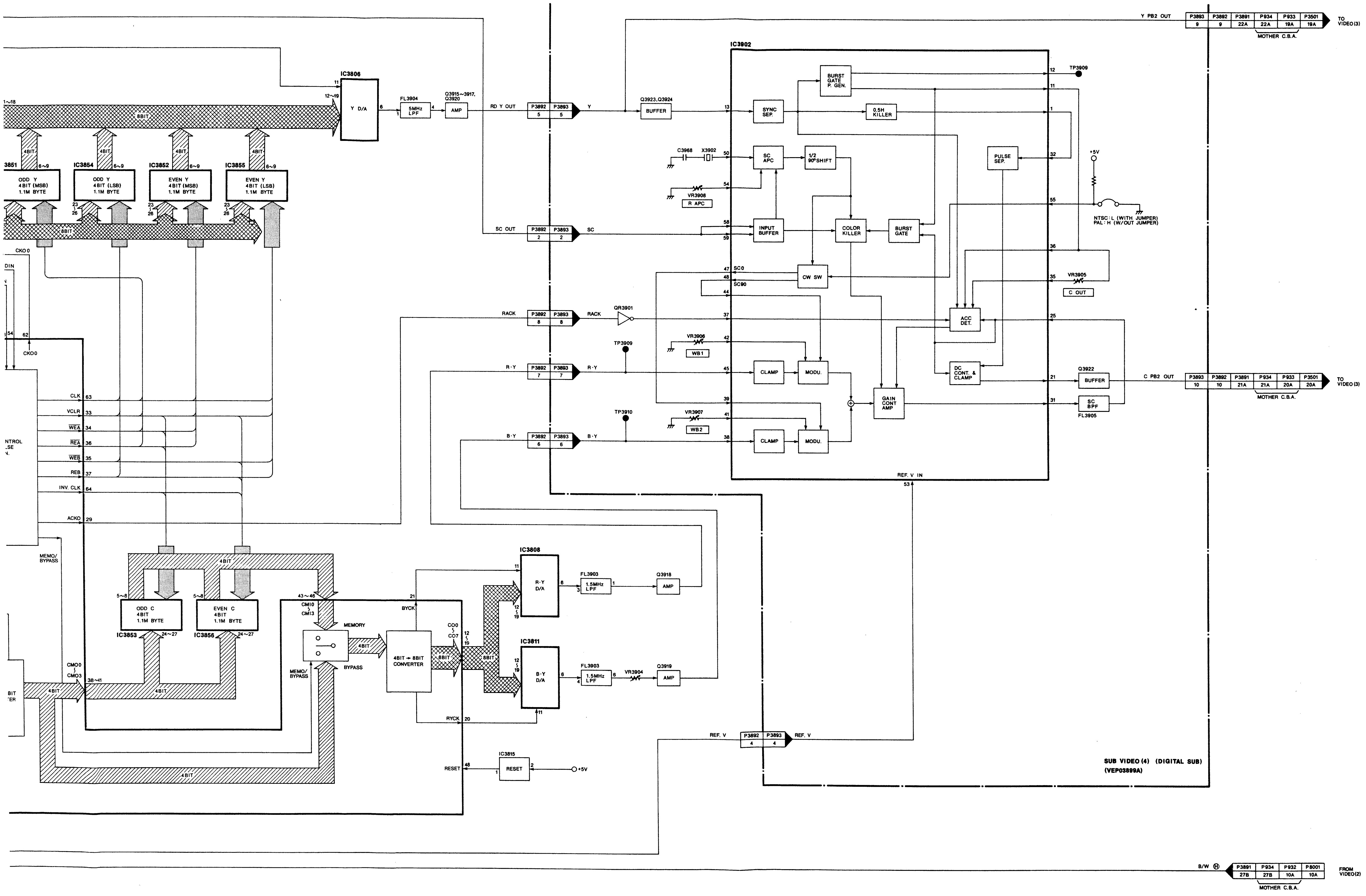
⬅ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)

⇦ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)

REF NO. 3500 SERIES

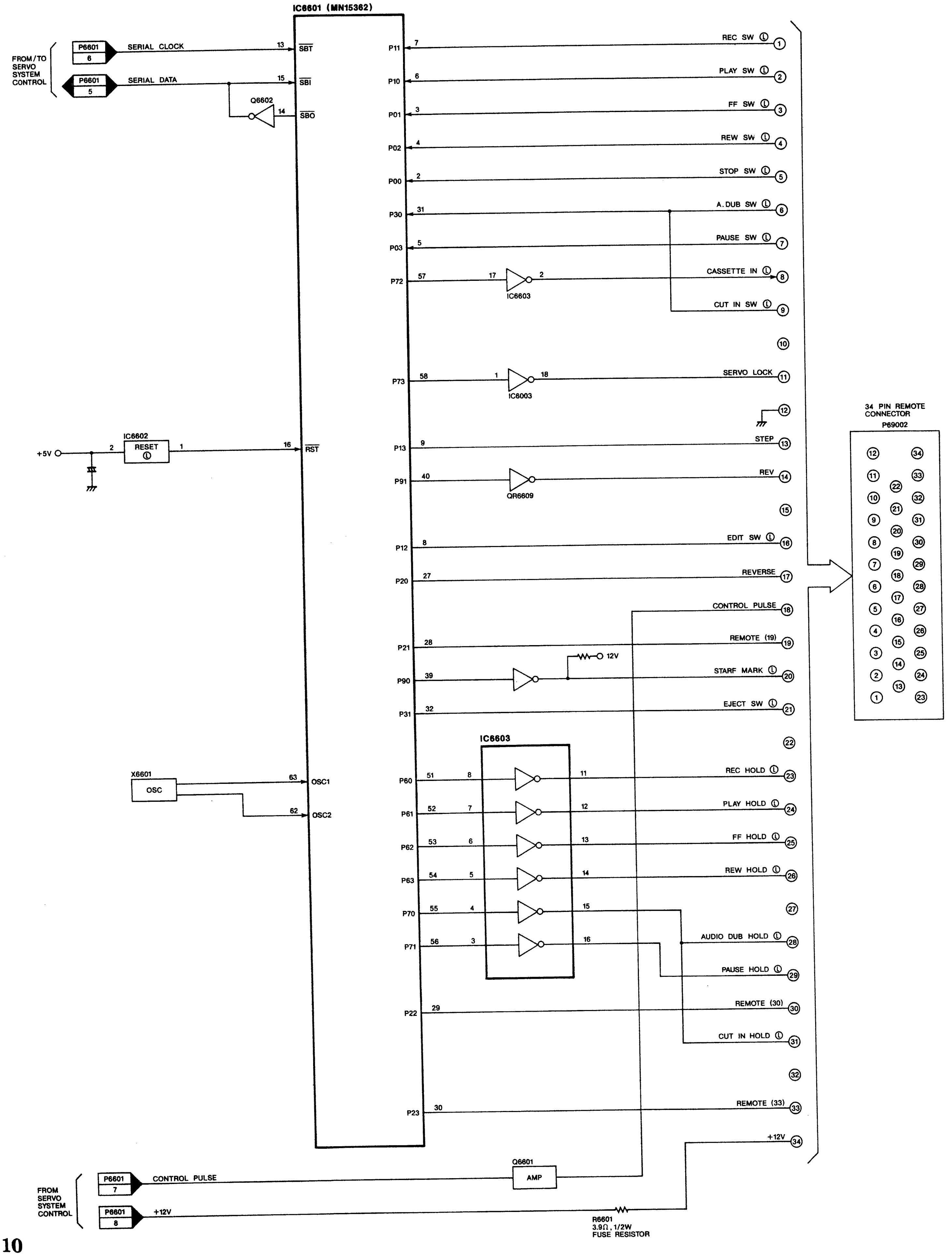
VIDEO (4) (DIGITAL) BLOCK DIAGRAM


FROM VIDEO (2)
P8001 P932 P934 P3891
12A 12A 26A 26A
MOTHER C.B.A.
SC IN
Q3910
FROM VIDEO (3)
P3501 P933 P934 P3891
16A 16A 25A 25A
Y PB1 IN
IC3901
GAIN CONTROL
Q3912, Q3913
BUFFER
SYNC SEP.
BURST GATE P. GEN.
Q3904
H. OSC. & AFC
V. SYNC SEPA.
V. OSC
EVEN/ODD DET.
Q3909
AMP
FL3902
5MHz LPF
Q3907, Q3908
AMP
IC3903
AMP
TP3901
5MHz LPF
VR3903
AD. Y. LEVEL
+5V
C3941
C3942
VR3909
AFC
TP3908
Q3911
BUFFER
Q3906
Q3905
C PB1 IN
P3501 P933 P934 P3891
17A 17A 24A 24A
AMP & ACC
BURST GATE
Q3926
AMP
VR3902
Q3927
BUFFER
C3923, L3905
SC BPF
INPUT BUFFER
R-Y DEMODU.
B-Y DEMODU.
LPF
APC DET.
COLOR KILLER DET.
VR3901
W. APC
C3915 X3901
SC. VCO
1/2 90°SHIFT
CW SW
V. REF. GEN.
FL3901
1.5MHz LPF
Q3902
Q3903
R-Y
B-Y
IC3903
CLAMP
VRT VRB GEN.
BUFFER
FL3805
3MHz LPF
TP3902
VRT
VRB
QR3902
QR3802
IC3816~3824
GATE
B/W Ⓛ
CONNECT Ⓗ
QR3801
FIELD1
FIELD2
IC3802
Y A/D
VRB
VRT
8BIT
IC3814
8BIT D-TYPE F.F.
IC3805
Y0 ~ Y7
Ⓗ BYPASS
Ⓛ MEMORY
IC3851
ODD Y 4BIT (MSB) 1.1M BYTE
IC3854
ODD Y 4BIT (LSB) 1.1M BYTE
IC3852
EVEN Y 4BIT 1.1M BYTE
4BIT
CKO0
VDIN
HDIN
ODEV
WMC
IC3804
VRT
VRB
VIN
C A/D
D0 ~ D7
IC3813, X3801
OSC
IC3810
CKIN
CONTROL PULSE GEN.
CLK
VCLR
WEA
REA
WEB
REB
INV. CLK
ACKO
RED
FLD1
FLD2
ACKI
MEMO/BYPASS
ADCK
MPX
CI0 ~ CI7
8BIT → 4BIT CONVERTER
CMO0 ~ CMO3
IC3853
ODD C 4BIT 1.1M BYTE
TP3911
TO VIDEO(3)
MOTHER C.B.A.
P3501 P933 P934 P3891
18A 18A 23A 23A
CONNECT Ⓛ
FROM FRONT
P6202 P974 P934 P3891
3 3 30A 30A
FIELD1 (A)
P6202 P974 P934 P3891
4 4 32A 32A
FIELD2 (B)
FROM SYSTEM CTL
P6001 P961 P934 P3891
17 2 4A 4A
DIGITAL OUT Ⓗ
FROM VIDEO (2)
P8001 P932 P934 P3891
4B 4B 32B 32B
SECAM Ⓗ
FROM FRONT
P6202 P974 P934 P3891
1 1 31B 31B
M-NTSC
QR3891
QR3892
NOT USED FOR NTSC VERSION

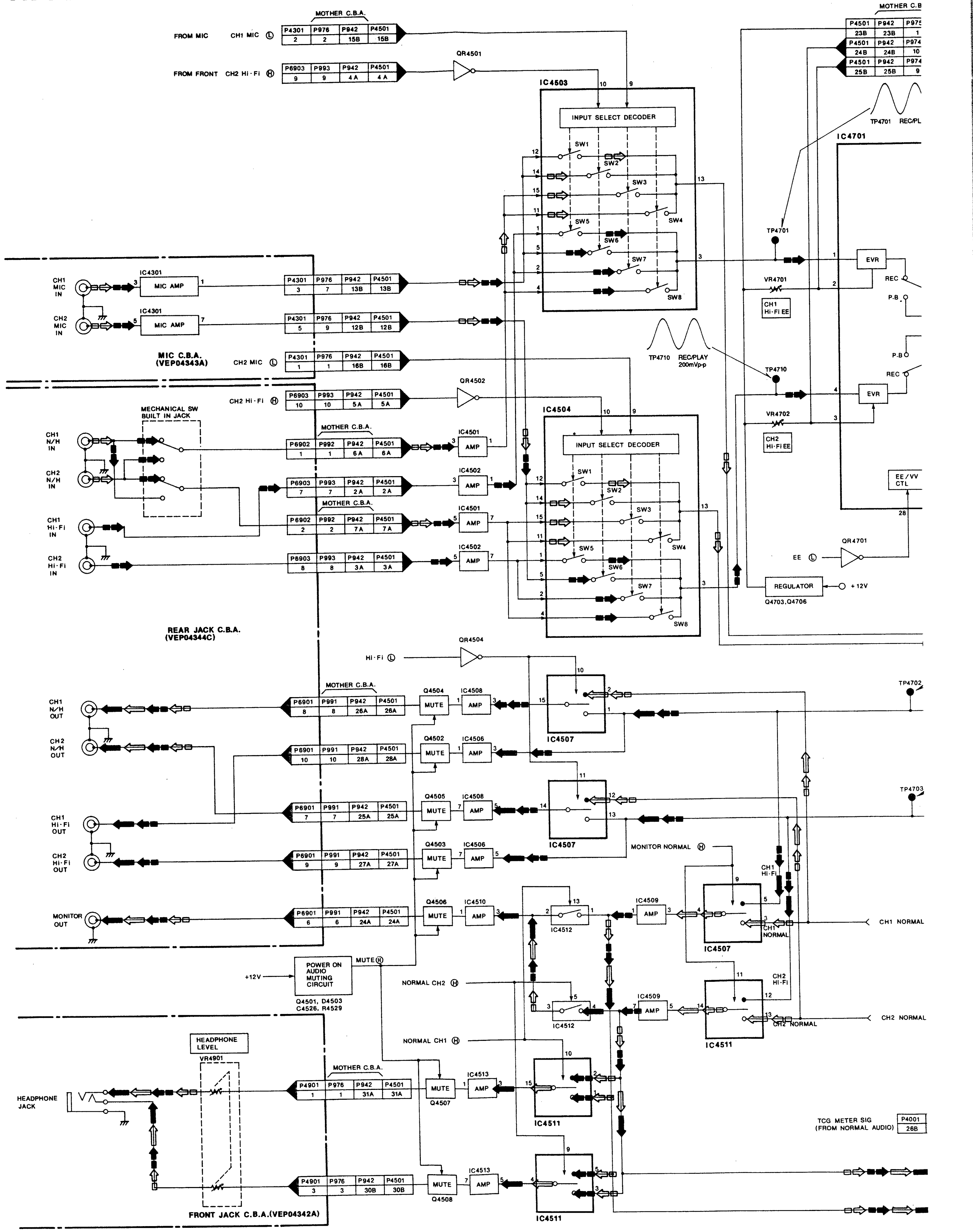

Y PB2 OUT
P3893 9
P3892 9
P3891 22A
P934 22A
P933 19A
P3501 19A
MOTHER C.B.A.
TO VIDEO(3)
IC3902
IC3806
Y D/A
FL3904
5MHz LPF
Q3915~3917, Q3920
AMP
RD Y OUT
Y
Q3923, Q3924
BUFFER
SYNC SEP.
BURST GATE P. GEN.
0.5H KILLER
TP3909
PULSE SEP.
+5V
8BIT
4BIT
IC3851
ODD Y 4BIT (MSB) 1.1M BYTE
IC3854
ODD Y 4BIT (LSB) 1.1M BYTE
IC3852
EVEN Y 4BIT (MSB) 1.1M BYTE
IC3855
EVEN Y 4BIT (LSB) 1.1M BYTE
CKO0
DIN
C3968
X3902
SC APC
1/2 90°SHIFT
VR3908
R APC
NTSC : L (WITH JUMPER)
PAL : H (W/OUT JUMPER)
SC OUT
SC
INPUT BUFFER
COLOR KILLER
BURST GATE
SC0
SC90
CW SW
VR3905
C OUT
RACK
QR3901
ACC DET.
VR3906
WB1
TP3909
R-Y
CLAMP
MODU.
DC CONT. & CLAMP
Q3922
BUFFER
C PB2 OUT
P3893 10
P3892 10
P3891 21A
P934 21A
P933 20A
P3501 20A
MOTHER C.B.A.
TO VIDEO(3)
TP3910
VR3907
WB2
GAIN CONT AMP
SC BPF
FL3905
B-Y
CLAMP
MODU.
CLK 63
VCLR 33
WEA 34
REA 36
WEB 35
REB 37
INV. CLK 64
ACKO 29
NTROL
LSE
REF. V IN 53
IC3808
R-Y D/A
FL3903
1.5MHz LPF
Q3918
AMP
MEMO/BYPASS
ODD C 4BIT 1.1M BYTE
IC3853
EVEN C 4BIT 1.1M BYTE
IC3856
CMI0 ~ CMI3
MEMORY
BYPASS
4BIT → 8BIT CONVERTER
BYCK
CO0 ~ CO7
IC3811
B-Y D/A
FL3903
1.5MHz LPF
VR3904
Q3919
AMP
CMO0 ~ CMO3
RYCK
REF. V
P3892 4
P3893 4
REF. V
IC3815
RESET
+5V
B/W H
P3891 27B
P934 27B
P932 10A
P8001 10A
MOTHER C.B.A.
FROM VIDEO(2)

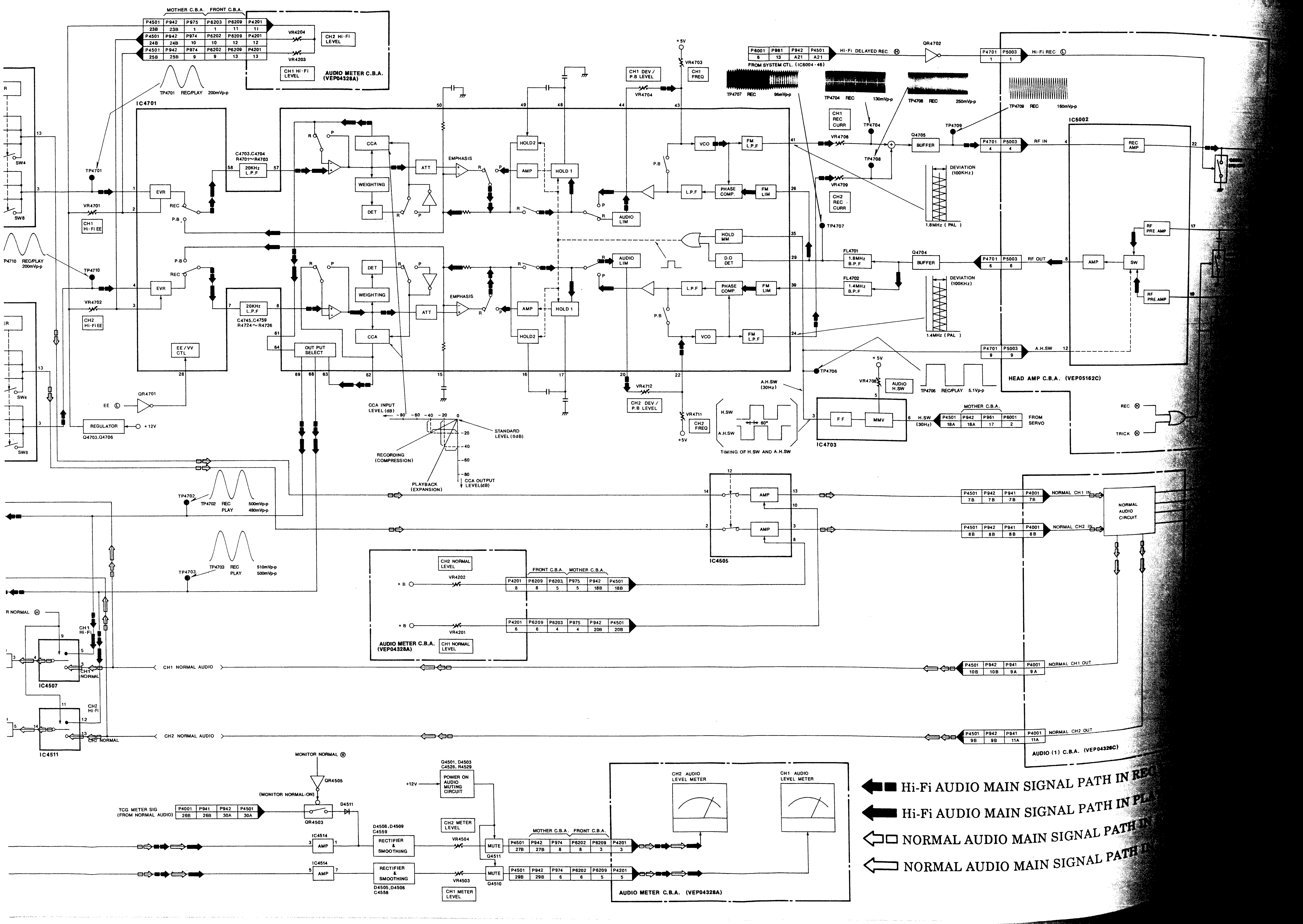
SUB VIDEO (4) (DIGITAL SUB)
(VEP03899A)

34P INTERFACE BLOCK DIAGRAM

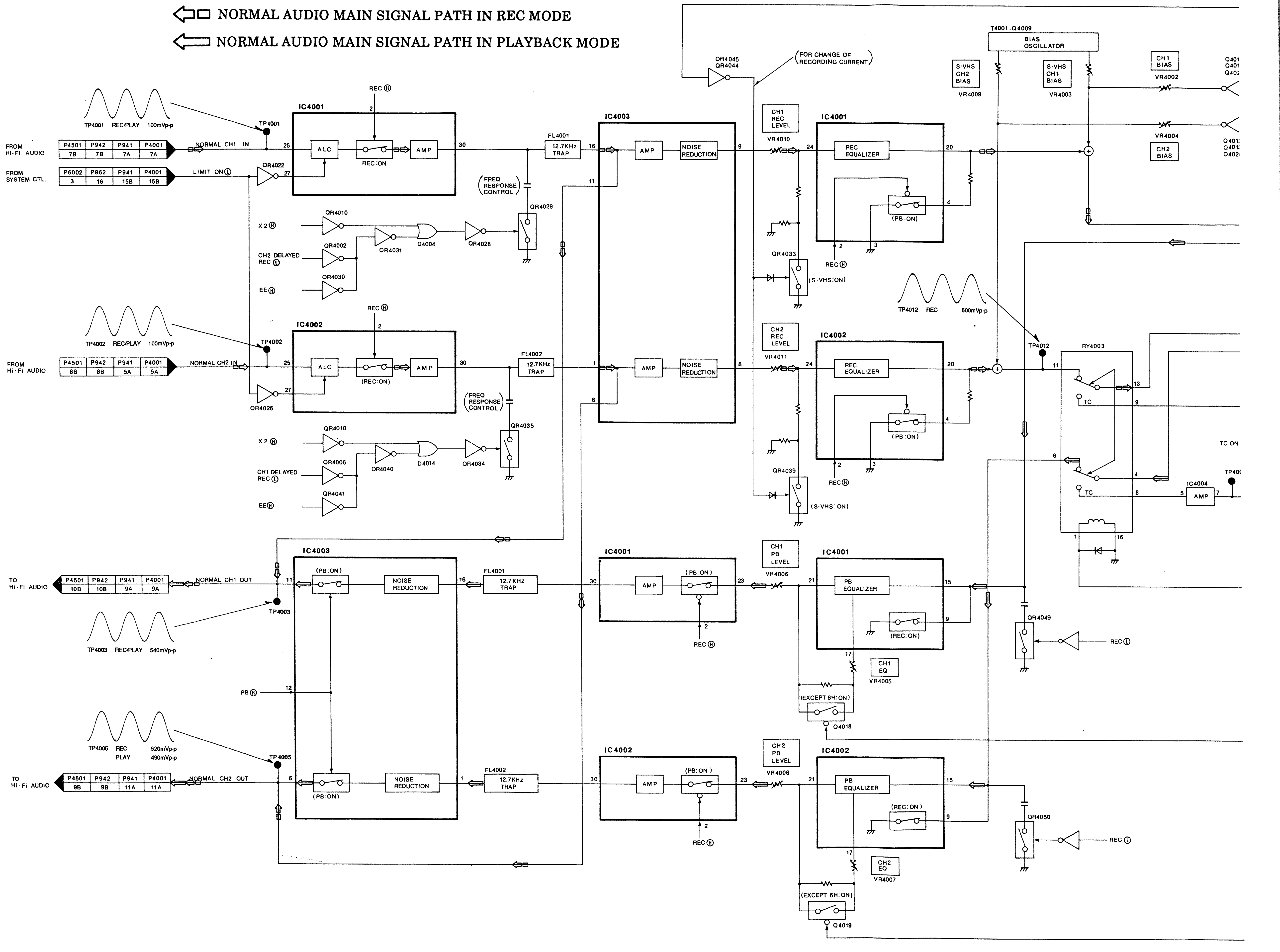

IC6601 (MN15362)
FROM/TO SERVO SYSTEM CONTROL
P6601 6
SERIAL CLOCK
P6601 5
SERIAL DATA
Q6602
SBT
SBI
SBO
P11
P10
P01
P02
P00
P30
P03
P72
P73
P13
P91
P12
P20
P21
P90
P31
P60
P61
P62
P63
P70
P71
P22
P23
REC SW Ⓛ ①
PLAY SW Ⓛ ②
FF SW Ⓛ ③
REW SW Ⓛ ④
STOP SW Ⓛ ⑤
A.DUB SW Ⓛ ⑥
PAUSE SW Ⓛ ⑦
CASSETTE IN Ⓛ ⑧
CUT IN SW Ⓛ ⑨
⑩
SERVO LOCK ⑪
⑫
STEP ⑬
REV ⑭
⑮
EDIT SW Ⓛ ⑯
REVERSE ⑰
CONTROL PULSE ⑱
REMOTE (19) ⑲
STARF MARK Ⓛ ⑳
EJECT SW Ⓛ ㉑
㉒
REC HOLD Ⓛ ㉓
PLAY HOLD Ⓛ ㉔
FF HOLD Ⓛ ㉕
REW HOLD Ⓛ ㉖
㉗
AUDIO DUB HOLD Ⓛ ㉘
PAUSE HOLD Ⓛ ㉙
REMOTE (30) ㉚
CUT IN HOLD Ⓛ ㉛
㉜
REMOTE (33) ㉝
+12V ㉞
IC6603
IC6003
QR6609
IC6602
RESET Ⓛ
+5V
RST
12V
X6601
OSC
OSC1
OSC2
34 PIN REMOTE CONNECTOR
P69002
FROM SERVO SYSTEM CONTROL
P6601 7
CONTROL PULSE
P6601 8
+12V
Q6601
AMP
R6601
3.9Ω, 1/2W
FUSE RESISTOR

Hi-Fi AUDIO BLOCK DIAGRAM


MOTHER C.B.A.
FROM MIC
CH1 MIC Ⓛ
FROM FRONT
CH2 Hi-Fi Ⓗ
QR4501
IC4503
INPUT SELECT DECODER
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
IC4504
TP4701
REC/PL
IC4701
EVR
REC
P.B
VR4701
CH1 Hi-Fi EE
TP4710
REC/PLAY 200mVp-p
VR4702
CH2 Hi-Fi EE
EE/VV CTL
QR4701
EE Ⓛ
REGULATOR
+12V
Q4703, Q4706
CH1 MIC IN
CH2 MIC IN
IC4301
MIC AMP
MIC C.B.A. (VEP04343A)
CH2 MIC Ⓛ
QR4502
CH2 Hi-Fi Ⓗ
MECHANICAL SW BUILT IN JACK
CH1 N/H IN
CH2 N/H IN
CH1 Hi-Fi IN
CH2 Hi-Fi IN
IC4501
IC4502
AMP
REAR JACK C.B.A. (VEP04344C)
QR4504
Hi-Fi Ⓛ
CH1 N/H OUT
CH2 N/H OUT
CH1 Hi-Fi OUT
CH2 Hi-Fi OUT
MONITOR OUT
Q4504
Q4502
Q4505
Q4503
Q4506
MUTE
IC4508
IC4506
IC4510
IC4507
TP4702
TP4703
MONITOR NORMAL Ⓗ
IC4512
IC4509
CH1 Hi-Fi
CH1 NORMAL
CH2 Hi-Fi
CH2 NORMAL
IC4511
POWER ON AUDIO MUTING CIRCUIT
+12V
MUTE Ⓗ
Q4501, D4503
C4526, R4529
NORMAL CH2 Ⓗ
NORMAL CH1 Ⓗ
HEADPHONE LEVEL
VR4901
HEADPHONE JACK
IC4513
Q4507
Q4508
FRONT JACK C.B.A. (VEP04342A)
TCG METER SIG (FROM NORMAL AUDIO)
P4001 26B


MOTHER C.B.A.
FRONT C.B.A.
AUDIO METER C.B.A. (VEP04328A)
CH2 Hi-Fi LEVEL
CH1 Hi-Fi LEVEL
VR4204
VR4203
TP4701 REC/PLAY 200mVp-p
IC4701
EVR
REC
P.B
20KHz L.P.F
C4703,C4704 R4701~R4703
C4745,C4759 R4724~R4726
CCA
WEIGHTING
DET
ATT
EMPHASIS
AMP
HOLD 1
HOLD2
AUDIO LIM
VCO
FM L.P.F
L.P.F
PHASE COMP.
FM LIM
HOLD MM
D.O DET
OUT PUT SELECT
EE/VV CTL
REGULATOR
Q4703,Q4706
QR4701
EE
+12V
VR4701
CH1 Hi-Fi EE
VR4702
CH2 Hi-Fi EE
TP4710
P4710 REC/PLAY 200mVp-p
SW4
SW8
CH1 DEV / P.B LEVEL
VR4704
CH1 FREQ
VR4703
+5V
CH2 DEV / P.B LEVEL
VR4712
VR4711
CH2 FREQ
CCA INPUT LEVEL (dB)
STANDARD LEVEL (0dB)
RECORDING (COMPRESSION)
PLAYBACK (EXPANSION)
CCA OUTPUT LEVEL(dB)
P6001 P961 P942 P4501
Hi-Fi DELAYED REC
FROM SYSTEM CTL. (IC6004-46)
QR4702
P4701 P5003
Hi-Fi REC
TP4707 REC 96mVp-p
TP4704 REC 130mVp-p
TP4708 REC 250mVp-p
TP4709 REC 160mVp-p
CH1 REC CURR
CH2 REC CURR
VR4706
VR4709
Q4705 BUFFER
Q4704 BUFFER
DEVIATION (100KHz)
1.8MHz (PAL)
1.4MHz (PAL)
FL4701 1.8MHz B.P.F
FL4702 1.4MHz B.P.F
RF IN
RF OUT
A.H.SW
IC5002
REC AMP
RF PRE AMP
SW
HEAD AMP C.B.A. (VEP05162C)
REC
TRICK
TP4706
TP4706 REC/PLAY 5.1Vp-p
AUDIO H.SW
VR4708
A.H.SW (30Hz)
H.SW (30Hz)
FF
MMV
IC4703
FROM SERVO
P4501 P942 P961 P6001
TIMING OF H.SW AND A.H.SW
TP4702 REC 500mVp-p PLAY 480mVp-p
TP4703 REC 510mVp-p PLAY 500mVp-p
IC4505
AMP
P4501 P942 P941 P4001
NORMAL CH1 IN
NORMAL CH2 IN
NORMAL AUDIO CIRCUIT
NORMAL CH1 OUT
NORMAL CH2 OUT
AUDIO (1) C.B.A. (VEP04326C)
CH2 NORMAL LEVEL
VR4202
CH1 NORMAL LEVEL
VR4201
P4201 P6209 P6203 P975 P942 P4501
AUDIO METER C.B.A. (VEP04328A)
R NORMAL
CH1 Hi-Fi
CH1 NORMAL
CH2 Hi-Fi
CH2 NORMAL
IC4507
IC4511
CH1 NORMAL AUDIO
CH2 NORMAL AUDIO
MONITOR NORMAL
QR4505
(MONITOR NORMAL:ON)
QR4503
D4511
TCG METER SIG (FROM NORMAL AUDIO)
IC4514 AMP
D4508,D4509 C4559
D4505,D4506 C4558
RECTIFIER & SMOOTHING
VR4504
VR4503
CH2 METER LEVEL
CH1 METER LEVEL
Q4501, D4503 C4526, R4529
POWER ON AUDIO MUTING CIRCUIT
MUTE Q4511
MUTE Q4510
CH2 AUDIO LEVEL METER
CH1 AUDIO LEVEL METER
Hi-Fi AUDIO MAIN SIGNAL PATH IN REC
Hi-Fi AUDIO MAIN SIGNAL PATH IN PL
NORMAL AUDIO MAIN SIGNAL PATH IN
NORMAL AUDIO MAIN SIGNAL PATH IN

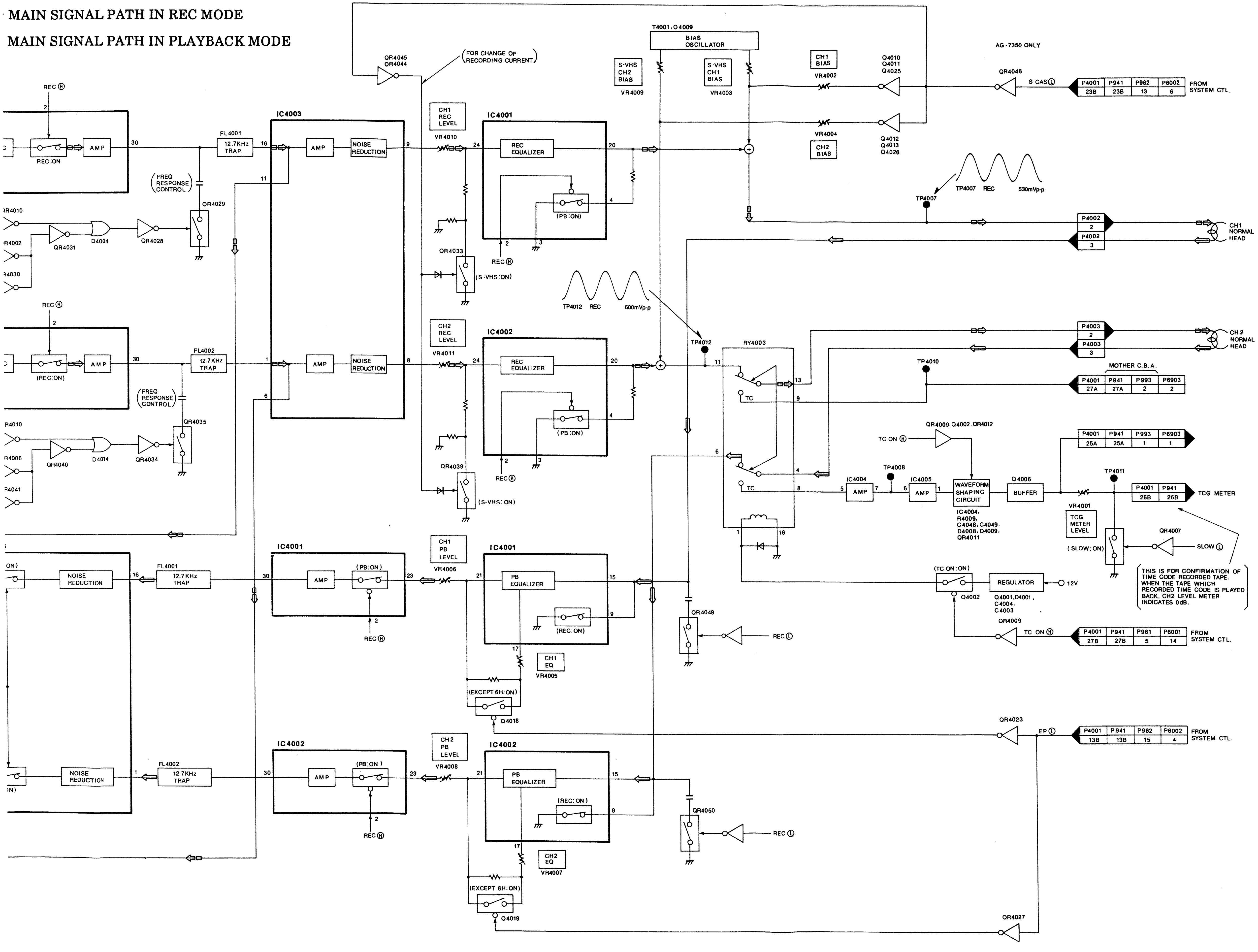
NORMAL AUDIO BLOCK DIAGRAM


NORMAL AUDIO MAIN SIGNAL PATH IN REC MODE
NORMAL AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
TP4001 REC/PLAY 100mVp-p
FROM Hi-Fi AUDIO
P4501 7B
P942 7B
P941 7A
P4001 7A
NORMAL CH1 IN
FROM SYSTEM CTL.
P6002 3
P962 16
P941 15B
P4001 15B
LIMIT ON Ⓛ
QR4022
TP4001
IC4001
REC Ⓗ
ALC
AMP
REC:ON
FL4001
12.7KHz TRAP
(FREQ RESPONSE CONTROL)
QR4029
X2 Ⓗ
QR4010
QR4002
CH2 DELAYED REC Ⓛ
QR4031
D4004
QR4028
QR4030
EE Ⓗ
TP4002 REC/PLAY 100mVp-p
FROM Hi-Fi AUDIO
P4501 8B
P942 8B
P941 5A
P4001 5A
NORMAL CH2 IN
TP4002
IC4002
REC Ⓗ
ALC
(REC:ON)
AMP
QR4026
FL4002
12.7KHz TRAP
(FREQ RESPONSE CONTROL)
QR4035
X2 Ⓗ
QR4010
QR4006
CH1 DELAYED REC Ⓛ
QR4040
D4014
QR4034
QR4041
EE Ⓗ
IC4003
AMP
NOISE REDUCTION
QR4045
QR4044
(FOR CHANGE OF RECORDING CURRENT.)
CH1 REC LEVEL
VR4010
IC4001
REC EQUALIZER
(PB:ON)
QR4033
(S-VHS:ON)
REC Ⓗ
CH2 REC LEVEL
VR4011
IC4002
REC EQUALIZER
(PB:ON)
QR4039
(S-VHS:ON)
REC Ⓗ
T4001, Q4009
BIAS OSCILLATOR
S-VHS CH2 BIAS
VR4009
S-VHS CH1 BIAS
VR4003
CH1 BIAS
VR4002
VR4004
CH2 BIAS
Q401
Q401
Q402
Q401
Q401
Q402
TP4012 REC 600mVp-p
TP4012
RY4003
TC
TC
TC ON
IC4004
AMP
TP40
IC4003
(PB:ON)
NOISE REDUCTION
(PB:ON)
NOISE REDUCTION
PB Ⓗ
TO Hi-Fi AUDIO
P4501 10B
P942 10B
P941 9A
P4001 9A
NORMAL CH1 OUT
TP4003
TP4003 REC/PLAY 540mVp-p
TP4005 REC 520mVp-p PLAY 490mVp-p
TO Hi-Fi AUDIO
P4501 9B
P942 9B
P941 11A
P4001 11A
NORMAL CH2 OUT
TP4005
FL4001
12.7KHz TRAP
FL4002
12.7KHz TRAP
IC4001
AMP
(PB:ON)
REC Ⓗ
IC4002
AMP
(PB:ON)
REC Ⓗ
CH1 PB LEVEL
VR4006
IC4001
PB EQUALIZER
(REC:ON)
CH1 EQ
VR4005
(EXCEPT 6H:ON)
Q4018
CH2 PB LEVEL
VR4008
IC4002
PB EQUALIZER
(REC:ON)
CH2 EQ
VR4007
(EXCEPT 6H:ON)
Q4019
QR4049
REC Ⓛ
QR4050
REC Ⓛ

AM

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE



QR4045
QR4044
(FOR CHANGE OF RECORDING CURRENT)
T4001, Q4009
BIAS OSCILLATOR
S-VHS CH2 BIAS
VR4009
S-VHS CH1 BIAS
VR4003
CH1 BIAS
VR4002
CH2 BIAS
VR4004
Q4010
Q4011
Q4025
Q4012
Q4013
Q4026
AG-7350 ONLY
QR4046
S CAS Ⓛ
P4001 23B
P941 23B
P962 13
P6002 6
FROM SYSTEM CTL.
REC Ⓗ
REC:ON
AMP
FL4001
12.7KHz TRAP
(FREQ RESPONSE CONTROL)
QR4029
QR4010
QR4002
QR4030
QR4031
D4004
QR4028
IC4003
AMP
NOISE REDUCTION
CH1 REC LEVEL
VR4010
IC4001
REC EQUALIZER
(PB:ON)
QR4033
(S-VHS:ON)
TP4007
TP4007 REC 530mVp-p
P4002 2
P4002 3
CH1 NORMAL HEAD
TP4012 REC 600mVp-p
TP4012
FL4002
(REC:ON)
QR4035
QR4006
QR4040
D4014
QR4034
QR4041
CH2 REC LEVEL
VR4011
IC4002
QR4039
RY4003
TC
P4003 2
P4003 3
CH2 NORMAL HEAD
TP4010
MOTHER C.B.A.
P4001 27A
P941 27A
P993 2
P6903 2
QR4009, Q4002, QR4012
TC ON Ⓗ
TP4008
IC4004
IC4005
WAVEFORM SHAPING CIRCUIT
IC4004, R4009, C4048, C4049, D4008, D4009, QR4011
Q4006
BUFFER
P4001 25A
P941 25A
P993 1
P6903 1
TP4011
P4001 26B
P941 26B
TCG METER
VR4001
TCG METER LEVEL
(SLOW:ON)
QR4007
SLOW Ⓛ
THIS IS FOR CONFIRMATION OF TIME CODE RECORDED TAPE. WHEN THE TAPE WHICH RECORDED TIME CODE IS PLAYED BACK, CH2 LEVEL METER INDICATES 0dB.
(TC ON:ON)
Q4002
REGULATOR
12V
Q4001, D4001, C4004, C4003
QR4009
TC ON Ⓗ
P4001 27B
P941 27B
P961 5
P6001 14
FROM SYSTEM CTL.
NOISE REDUCTION
FL4001
12.7KHz TRAP
IC4001
AMP
(PB:ON)
REC Ⓗ
CH1 PB LEVEL
VR4006
PB EQUALIZER
(REC:ON)
CH1 EQ
VR4005
(EXCEPT 6H:ON)
Q4018
QR4049
REC Ⓛ
QR4023
EP Ⓛ
P4001 13B
P941 13B
P962 15
P6002 4
FROM SYSTEM CTL.
FL4002
IC4002
CH2 PB LEVEL
VR4008
CH2 EQ
VR4007
Q4019
QR4050
QR4027

Section 7

SCHEMATIC DIAGRAMS AND CIRCUIT BOARDS

CONTENTS

SW POWER SUPPLY C.B.A., SUB POWER SUPPLY C.B.A. AND POWER CONNECTION C.B.A. SCM-3
POWER SUPPLY SCM-3
SERVO & SYSTEM CONTROL C.B.A., SERVO TP C.B.A., SERVO VR C.B.A. AND MOTOR BASE C.B.A. SCM-4
SYSTEM CONTROL SCM-5
SERVO SCM-6
POWER DETECTION C.B.A. SCM-7
POWER DETECTION SCM-7
REEL SERVO C.B.A. SCM-8
REEL SERVO SCM-9
MOTHER C.B.A. AND MIC C.B.A. SCM-10
MOTHER SCM-11
VIDEO (1) C.B.A. SCM-12
VIDEO (1) SCM-13
VIDEO (3) SCM-14
VIDEO (3) C.B.A. SCM-15
VIDEO (2) SCM-16
VIDEO (2) C.B.A. SCM-17
AUDIO (2) C.B.A. SCM-18
AUDIO (2) SCM-19
AUDIO (1) C.B.A. SCM-20
AUDIO (1) SCM-21
FRONT C.B.A., AUDIO METER C.B.A., FRONT JACK C.B.A. AND SEARCH DIAL UNIT SCM-22
FRONT SCM-23
HEAD AMP C.B.A. SCM-24
HEAD AMP SCM-24
REAR JACK C.B.A. SCM-25
REAR JACK SCM-25
34P C.B.A. SCM-26
34P INTERFACE SCM-26
SUB VIDEO (4) C.B.A. (DIGITAL SUB) SCM-27
SUB VIDEO (4) (DIGITAL SUB) SCM-27
VIDEO (4) C.B.A. (DIGITAL) SCM-28
VIDEO (4) (DIGITAL) SCM-29
INTERCONNECTION SCM-30

NOTE : DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (   ) ON THESE DIAGRAMS IS REC MODE.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE OUT OF BRACKETS ON THESE DIAGRAMS IS STOP MODE.
MEASUREMENT SIGNAL ... PAL COLOUR SIGNAL. MEASUREMENT TAPE ... S-VHS TAPE.

IMPORTANT SAFETY NOTICE :
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

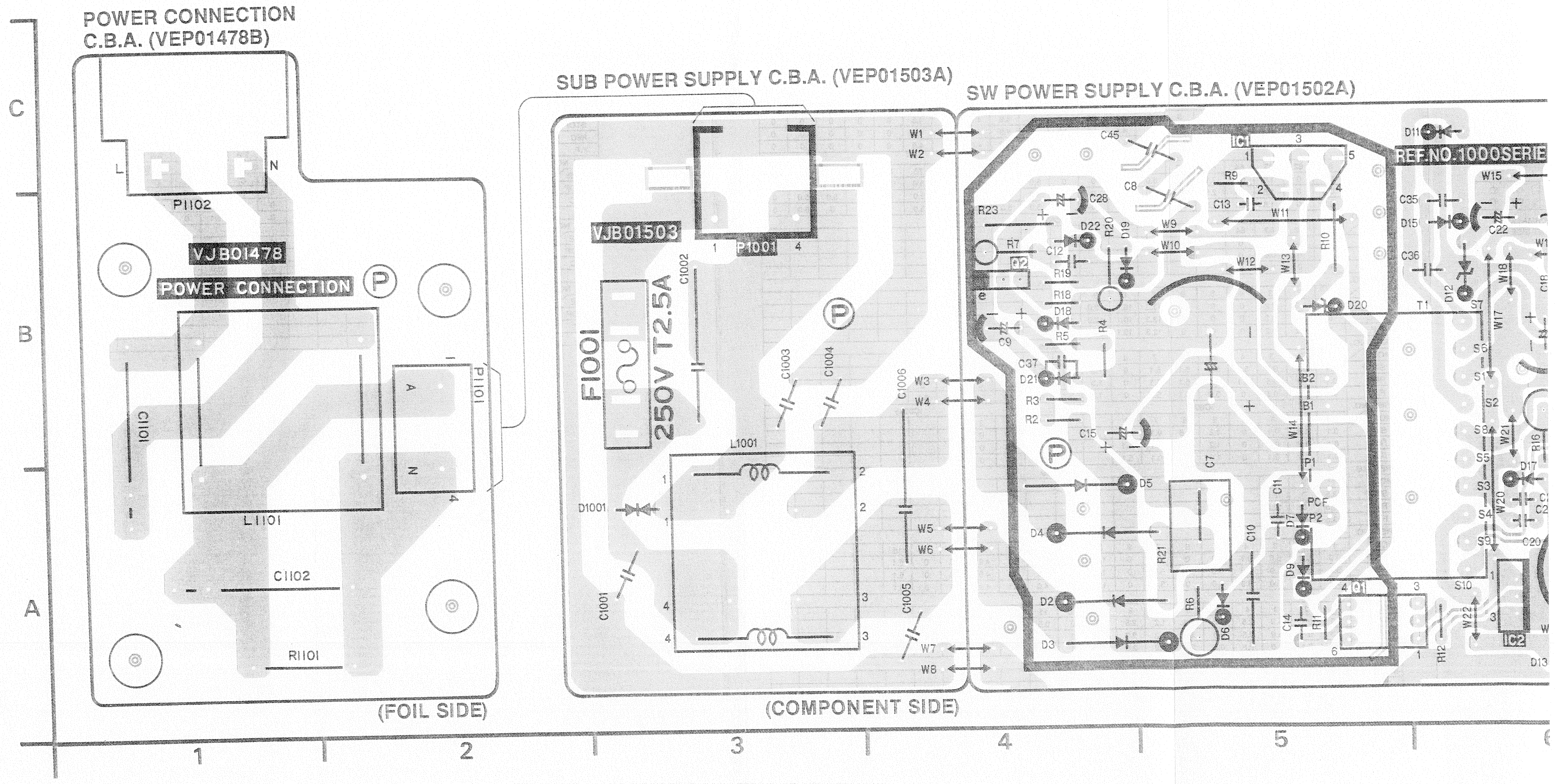
SW POWER SUPPLY C.B.A. (VEP01502A), SUB POWER SUPPLY C.B.A. (VEP01503A) AND POWER CONNECTION C.B.A. (VEP01478B)

POWER CONNECTION C.B.A.	
Connector	
P1101	B-2 Ⓕ
P1102	B-1 Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

SUB POWER SUPPLY C.B.A.	
Connector	
P1101	B-3 Ⓕ

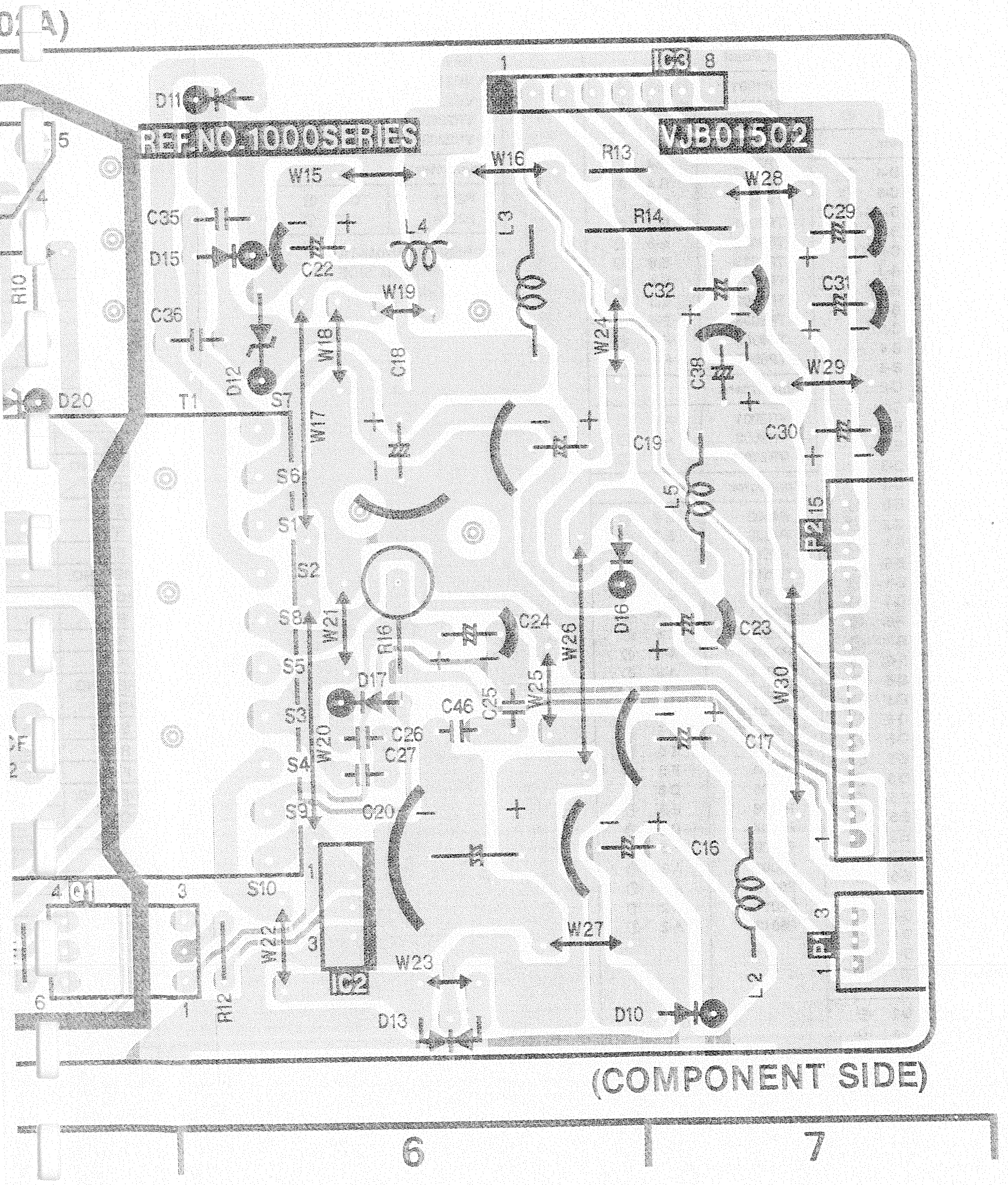
ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE


POWER CONNECTION C.B.A. (VEP01478B)
SUB POWER SUPPLY C.B.A. (VEP01503A)
SW POWER SUPPLY C.B.A. (VEP01502A)
(FOIL SIDE)
(COMPONENT SIDE)
C
B
A
1
2
3
4
5
P1102
L
N
VJB01478
POWER CONNECTION
P1101
A
N
C1101
L1101
C1102
R1101
VJB01503
P1001
F1001
250V T2.5A
C1002
C1003
C1004
C1006
L1001
D1001
C1001
C1005
W1
W2
W3
W4
W5
W6
W7
W8
C45
IC1
C8
R9
C13
W11
C28
R23
D22
R20
D19
R7
C12
Q2
R19
W9
W10
W12
W13
R10
R18
D18
R5
C9
R4
C37
D21
R3
R2
C15
W14
B2
B1
P1
C7
D20
D5
D4
C11
D7
PCF
P2
C10
R21
D9
D2
R6
D6
C14
R11
Q1
D3
REF.NO.1000SERIES
D11
W15
C35
D15
C22
C36
T1
D12
W18
S7
S6
S1
S2
S8
S5
S3
S4
S9
S10
W17
W21
R16
D17
W20
C20
W22
R12
IC2
D13

VEP01478B)

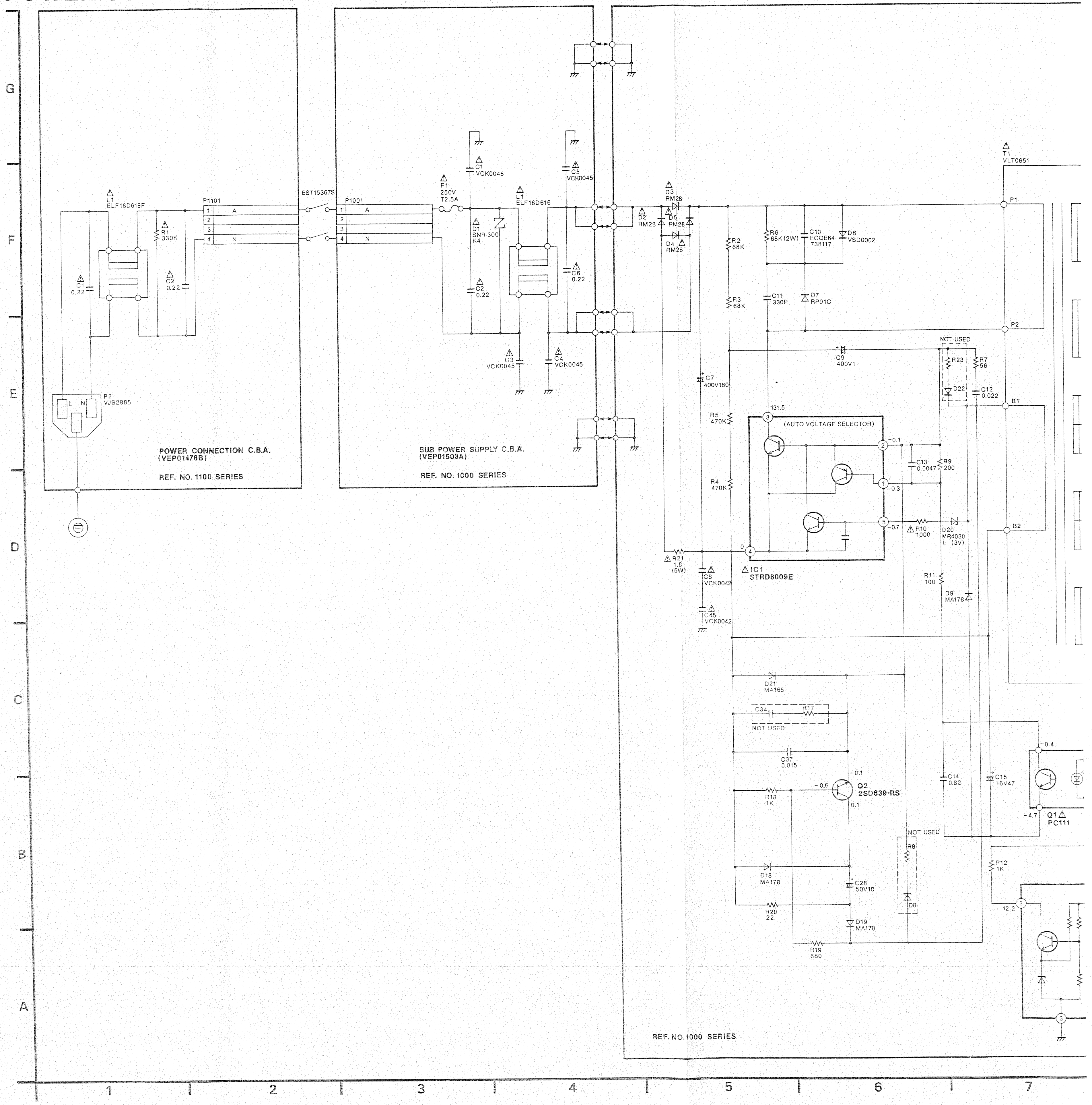
SW POWER SUPPLY C.B.A.	
Transistor	
Q1001	A-5 Ⓕ
Q1002	B-4 Ⓕ
Integrated Circuit	
IC1001	C-5 Ⓕ
IC1002	A-6 Ⓕ
IC1003	C-7 Ⓕ
Connector	
P1001	A-7 Ⓕ
P1002	B-7 Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

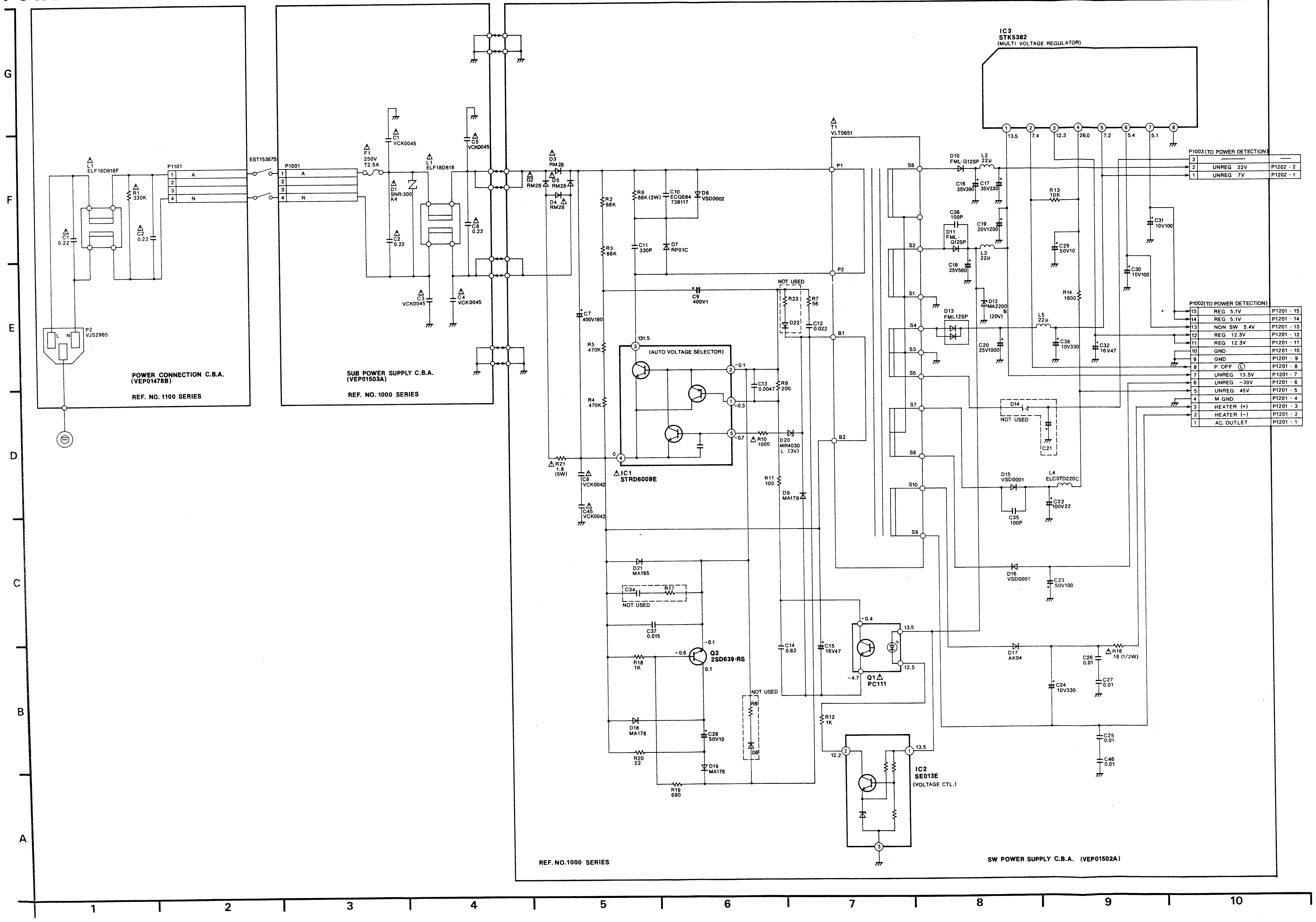

0(A)
REF.NO.1000SERIES
VJB01502
IC3
1
8
D11
W15
W16
R13
R14
W28
C35
D15
C22
L4
L3
C29
C36
W19
C32
C31
D12
W18
C18
W24
C38
W29
D20
T1
S7
W17
C19
C30
S6
S1
S2
L5
P2
15
S8
W21
R16
C24
W26
D16
C23
S5
D17
C25
W25
C46
W30
S3
C26
C27
S4
W20
C17
S9
C20
C16
Q1
S10
R12
W22
IC2
W23
W27
L2
P1
D13
D10
R10
6
7

(COMPONENT SIDE)

POWER SUPPLY SCHEMATIC DIAGRAM

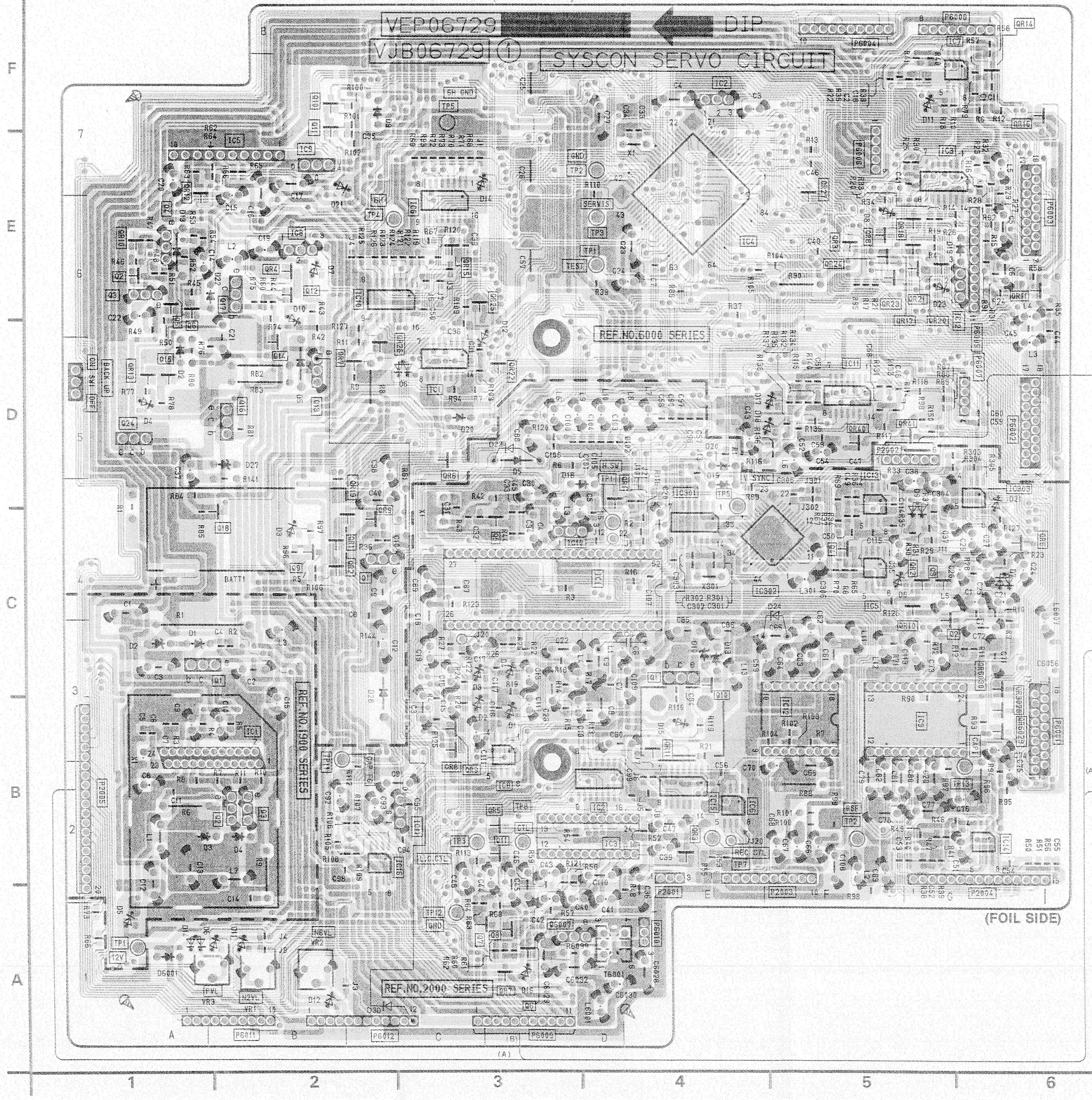

G
F
E
D
C
B
A
L1
ELF18D618F
R1
330K
C1
0.22
C2
0.22
P1101
1
2
3
4
A
N
EST15367S
P1001
P2
VJS2985
L
N
POWER CONNECTION C.B.A.
(VEP01478B)
REF. NO. 1100 SERIES
F1
250V
T2.5A
C1
VCK0045
D1
SNR-300
K4
C2
0.22
L1
ELF18D616
C5
VCK0045
C6
0.22
C3
VCK0045
C4
VCK0045
SUB POWER SUPPLY C.B.A.
(VEP01503A)
REF. NO. 1000 SERIES
D3
RM28
D2
RM28
D5
RM28
D4
RM28
R2
68K
R3
68K
R6
68K (2W)
C10
ECQE64
738117
D6
VSD0002
C11
330P
D7
RP01C
T1
VLT0651
P1
P2
C9
400V1
C7
400V180
NOT USED
R23
R7
56
D22
C12
0.022
B1
B2
R5
470K
R4
470K
131.5
(AUTO VOLTAGE SELECTOR)
−0.1
−0.3
−0.7
0
C13
0.0047
R9
200
R10
1000
D20
MR4030
L (3V)
R21
1.8
(5W)
C8
VCK0042
C45
VCK0042
IC1
STRD6009E
R11
100
D9
MA178
D21
MA165
C34
R17
NOT USED
C37
0.015
−0.1
−0.6
Q2
2SD639-RS
0.1
R18
1K
C14
0.82
C15
16V47
−0.4
−4.7
Q1
PC111
NOT USED
R8
D8
D18
MA178
C28
50V10
R20
22
D19
MA178
R19
680
R12
1K
12.2
REF. NO.1000 SERIES
1
2
3
4
5
6
7

POWER SUPPLY SCHEMATIC DIAGRAM


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
L1
ELF18D618F
R1
330K
C1
0.22
C2
0.22
P2
VJS2985
P1101
A
N
POWER CONNECTION C.B.A.
(VEP01478B)
REF. NO. 1100 SERIES
EST15367S
P1001
A
N
F1
250V
T2.5A
C1
VCK0045
D1
SNR-300
K4
L1
ELF18D616
C5
VCK0045
C6
0.22
C2
0.22
C3
VCK0045
C4
VCK0045
SUB POWER SUPPLY C.B.A.
(VEP01503A)
REF. NO. 1000 SERIES
D3
RM28
D2
RM28
D5
RM28
D4
RM28
R2
68K
R3
68K
R6
68K (2W)
C10
ECQE64
738117
D6
VSD0002
C11
330P
D7
RP01C
C9
400V1
C7
400V180
R5
470K
R4
470K
R21
1.8
(5W)
C8
VCK0042
C45
VCK0042
131.5
(AUTO VOLTAGE SELECTOR)
-0.1
-0.3
-0.7
0
IC1
STRD6009E
C13
0.0047
R9
200
R10
1000
D20
MR4030
L (3V)
R11
100
D9
MA178
NOT USED
R23
R7
56
D22
C12
0.022
T1
VLT0651
P1
P2
B1
B2
S8
S2
S1
S4
S3
S5
S7
S6
S10
S9
IC3
STK5382
(MULTI VOLTAGE REGULATOR)
13.5
7.4
12.3
26.0
7.2
5.4
5.1
D10
FML-G12SP
L2
22μ
C16
35V390
C17
35V330
C36
100P
D11
FML-
G12SP
C19
20V1200
L3
22μ
C18
25V560
R13
10K
C29
50V10
R14
1800
C31
10V100
C30
10V100
D12
MA2200
B
(20V)
D13
FML12SP
C20
25V1000
L5
22μ
C38
10V330
C32
16V47
D14
NOT USED
C21
D15
VSD0001
L4
ELC07D220C
C22
100V22
C35
100P
D16
VSD0001
C23
50V100
P1003 (TO POWER DETECTION)
3 — —
2 UNREG 22V P1202 · 2
1 UNREG 7V P1202 · 1
P1002 (TO POWER DETECTION)
15 REG 5.1V P1201 · 15
14 REG 5.1V P1201 · 14
13 NON SW 5.4V P1201 · 13
12 REG 12.3V P1201 · 12
11 REG 12.3V P1201 · 11
10 GND P1201 · 10
9 GND P1201 · 9
8 P. OFF Ⓛ P1201 · 8
7 UNREG 13.5V P1201 · 7
6 UNREG −30V P1201 · 6
5 UNREG 45V P1201 · 5
4 M.GND P1201 · 4
3 HEATER (+) P1201 · 3
2 HEATER (−) P1201 · 2
1 AC. OUTLET P1201 · 1
D21
MA165
C34
R17
NOT USED
C37
0.015
-0.1
-0.6
Q2
2SD639-RS
0.1
R18
1K
D18
MA178
C28
50V10
R20
22
D19
MA178
R19
680
NOT USED
R8
D8
C14
0.82
C15
16V47
-0.4
13.5
12.5
-4.7
Q1
PC111
D17
AK04
R16
18 (1/2W)
C26
0.01
C27
0.01
C24
10V330
C25
0.01
C46
0.01
R12
1K
12.2
13.5
IC2
SE013E
(VOLTAGE CTL.)
REF. NO.1000 SERIES
SW POWER SUPPLY C.B.A. (VEP01502A)

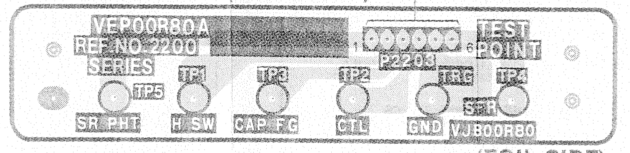
SERVO & SYSTEM CONTROL C.B.A. (VEP06729E), SERVO TP C.B.A. (VEP00R80A), SERVO VR C.B.A. (VEP00R51B) AND MOTOR BASE C.B.A

SERVO & SYSTEM CONTROL C.B.A. (VEP06729E)


VEP06729
DIP
VJB06729 ①
SYSCON SERVO CIRCUIT
REF.NO.6000 SERIES
REF.NO.1900 SERIES
REF.NO.2000 SERIES
BACK UP
BATT1
SERVIS
TEST
P6011
P6012
P6009
P2001
P2003
P2004
P6001
P6002
P6003
P6004
P6005
P6006
P6007
A
B
C
D
E
F
1
2
3
4
5
6
7
8
(A)
(B)

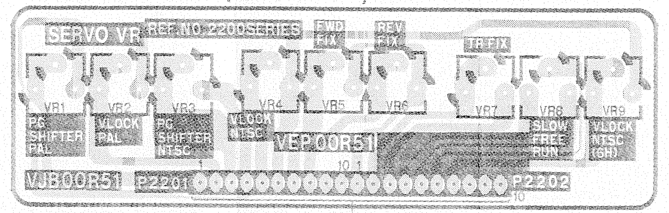
(FOIL SIDE)

SERVO TP C.B.A. (VEP00R80A)


VEP00R80A
REF.NO.2200
SERIES
P2203
1
6
TEST
POINT
TP5
TP1
TP3
TP2
TRG
TP4
STR
SR PHT
H SW
CAP FG
CTL
GND
VJB00R80

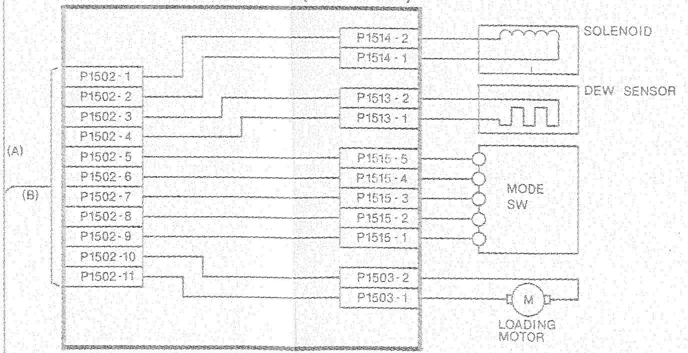
(FOIL SIDE)

SERVO VR C.B.A. (VEP00R51B)


SERVO VR
REF.NO.2200SERIES
FWD FIX
REV FIX
TR FIX
VR1
VR2
VR3
VR4
VR5
VR6
VR7
VR8
VR9
PG SHIFTER PAL
VLOCK PAL
PG SHIFTER NTSC
VLOCK NTSC
VEP00R51
SLOW FREE RUN
VLOCK NTSC (6H)
VJB00R51
P2201
P2202
1
10 1
10

(FOIL SIDE)

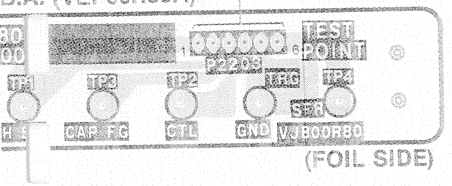
MOTOR BASE C.B.A. (VEK4163)


P1502 - 1
P1502 - 2
P1502 - 3
P1502 - 4
P1502 - 5
P1502 - 6
P1502 - 7
P1502 - 8
P1502 - 9
P1502 - 10
P1502 - 11
P1514 - 2
P1514 - 1
P1513 - 2
P1513 - 1
P1515 - 5
P1515 - 4
P1515 - 3
P1515 - 2
P1515 - 1
P1503 - 2
P1503 - 1
SOLENOID
DEW SENSOR
MODE SW
M
LOADING MOTOR
(A)
(B)

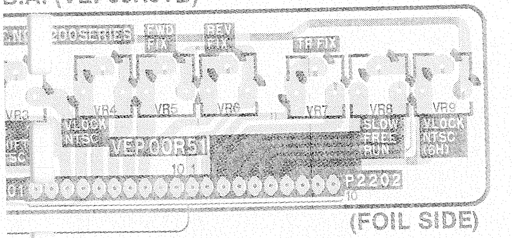
SE
Tra
Tra
Integ
IC
IC
ADDR
©...CO
Ⓕ...FO

P00R51B) AND MOTOR BASE C.B.A. (VEK4163)

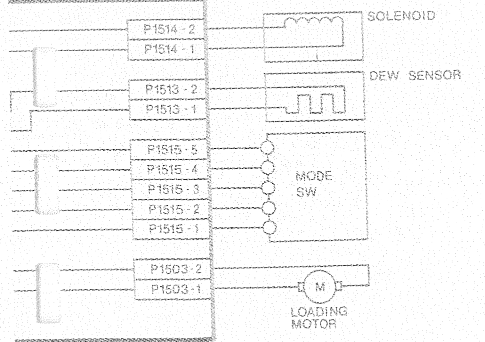
B.A. (VEP00R80A)



B.A. (VEP00R51B)



C. A. (VEK4163)



SERVO & SYSTEM CONTROL C.B.A. & MOTOR BASE C.B.A.		
Transistor		
Q1901	C-2	Ⓕ
Q1902	B-2	Ⓕ
Q1903	B-2	Ⓕ
Q2001	C-4	Ⓕ
Q2002	C-5	Ⓕ
Q2003	C-5	Ⓕ
Q2004	C-5	Ⓕ
Q2005	C-3	Ⓕ
Q2006	A-3	Ⓕ
Q2007	A-3	Ⓕ
Q2008	A-3	Ⓕ
Q2010	C-4	Ⓕ
Q2011	B-3	Ⓕ
Q6001	C-2	Ⓕ
Q6002	E-1	Ⓕ
Q6003	E-1	Ⓕ
Q6004	E-1	Ⓕ
Q6005	E-1	Ⓕ
Q6006	D-1	Ⓕ
Q6007	A-3	Ⓕ
Q6009	C-2	Ⓕ
Q6010	F-2	Ⓕ
Q6011	F-2	Ⓕ
Q6012	E-2	Ⓕ
Q6013	D-2	Ⓕ
Q6014	D-2	Ⓕ
Q6015	D-1	Ⓕ
Q6016	D-2	Ⓕ
Q6017	E-2	Ⓕ
Q6018	C-2	Ⓕ
Q6024	D-1	Ⓕ
Transistor & Resistor		
QR2001	D-4	Ⓕ
QR2002	C-5	Ⓕ
QR2003	B-4	Ⓕ
QR2005	B-3	Ⓕ
QR2006	C-6	Ⓕ
QR2007	A-3	Ⓕ
QR2008	B-3	Ⓕ
QR2009	B-3	Ⓕ
QR2010	C-5	Ⓕ
QR2011	B-4	Ⓕ
QR3028	B-6	Ⓕ
QR6001	C-2	Ⓕ
QR6002	C-2	Ⓕ
QR6003	E-5	Ⓕ
QR6004	E-2	Ⓕ
QR6006	D-3	Ⓕ
QR6007	D-2	Ⓕ
QR6008	E-5	Ⓕ
QR6009	C-2	Ⓕ
QR6010	E-1	Ⓕ
QR6011	E-6	Ⓕ
QR6012	E-1	Ⓕ
QR6013	D-1	Ⓕ
QR6014	F-6	Ⓕ
QR6015	E-3	Ⓕ
QR6016	F-6	Ⓕ
QR6017	D-5	Ⓕ
QR6018	E-5	Ⓕ
QR6019	D-2	Ⓕ
QR6020	D-5	Ⓕ
QR6021	E-5	Ⓕ
QR6022	D-3	Ⓕ
QR6023	E-5	Ⓕ
QR6024	E-5	Ⓕ
QR6025	E-3	Ⓕ
QR6026	D-3	Ⓕ
QR6027	E-5	Ⓕ
QR6029	B-6	Ⓕ
QR6030	C-6	Ⓕ
QR6040	D-5	Ⓕ
QR6041	D-5	Ⓕ
Integrated Circuit		
IC1901	B-2	Ⓕ
IC2001	C-4	Ⓕ
IC2002	B-4	Ⓕ
IC2003	B-4	Ⓕ
IC2005	C-5	Ⓕ
IC2006	B-4	Ⓕ
IC2008	B-3	Ⓕ
IC2009	B-5	Ⓕ
IC2010	C-3	Ⓕ
IC2011	B-3	Ⓕ
IC2012	B-5	Ⓕ
IC2013	D-5	Ⓕ
IC2014	B-6	Ⓕ
IC2015	B-4	Ⓕ
IC2016	B-3	Ⓕ
IC2301	D-4	Ⓕ
IC2302	C-4	Ⓕ
IC2303	D-6	Ⓕ
IC6001	D-3	Ⓕ
IC6002	F-4	Ⓕ
IC6003	E-5	Ⓕ
IC6004	E-4	Ⓕ
IC6005	E-2	Ⓕ
IC6006	E-3	Ⓕ
IC6007	F-5	Ⓕ
IC6008	E-2	Ⓕ
IC6009	E-2	Ⓕ
IC6010	E-2	Ⓕ
IC6011	D-5	Ⓕ
IC6012	D-5	Ⓕ
Test Point		
TP1901	A-1	Ⓕ
TP2001	D-4	Ⓕ
TP2002	B-5	Ⓕ
TP2003	B-3	Ⓕ
TP2005	D-4	Ⓕ
TP2007	B-4	Ⓕ
TP2008	B-3	Ⓕ
TP2011	B-2	Ⓕ
TP2012	A-3	Ⓕ
TP2013	B-6	Ⓕ
TP6001	E-4	Ⓕ
TP6002	E-3	Ⓕ
TP6003	E-4	Ⓕ
TP6004	E-2	Ⓕ
TP6005	F-3	Ⓕ
Adjustment		
VR2001	A-2	Ⓕ
VR2002	A-2	Ⓕ
VR2003	A-1	Ⓕ
Connector		
P1502	B-7	Ⓕ
P1503	B-7	Ⓕ
P1513	B-7	Ⓕ
P1514	B-7	Ⓕ
P1515	B-7	Ⓕ
P2001	A-4	Ⓕ
P2002	D-5	Ⓕ
P2003	A-5	Ⓕ
P2004	A-6	Ⓕ
P2005	B-1	Ⓕ
P6001	B-6	Ⓕ
P6002	D-6	Ⓕ
P6003	E-6	Ⓕ
P6004	F-5	Ⓕ
P6005	D-6	Ⓕ
P6006	E-5	Ⓕ
P6007	D-6	Ⓕ
P6008	F-5	Ⓕ
P6009	A-3	Ⓕ
P6010	A-4	Ⓕ
P6011	A-2	Ⓕ
P6012	A-2	Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

SERVO TP C.B.A.		
Test Point		
TP2201	D-7	Ⓕ
TP2202	D-7	Ⓕ
TP2203	D-7	Ⓕ
TP2204	D-7	Ⓕ
TP2205	D-7	Ⓕ
TPG	D-7	Ⓕ
Connector		
P2203	D-7	Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

SERVO VR C.B.A.		
Adjustment		
VR2201	C-7	Ⓕ
VR2202	C-7	Ⓕ
VR2203	C-7	Ⓕ
VR2204	C-7	Ⓕ
VR2205	C-7	Ⓕ
VR2206	C-7	Ⓕ
VR2207	C-7	Ⓕ
VR2208	C-7	Ⓕ
VR2209	C-7	Ⓕ
Connector		
P2201	C-7	Ⓕ
P2202	C-7	Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

SYSTEM CONTROL ICs DC VOLTAGE CHART

REF. NO.	IC6001													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
STOP	0	0	5.1	0	5.1	5.1	0	0.1	0	5.1	0.2	5.1	5.1	5.1
REC	0	0	5.1	4.8	5.1	5.1	0	2.3	0	5.1	4.8	5.1	5.1	5.1
F.F.	0	0	5.1	2.1	5.1	3.0	0	0.1	0	5.1	2.1	3.0	5.1	5.1

REF. NO.	IC6002		
MODE	1	2	3
STOP	5.0	5.0	0
REC	5.0	5.0	0
F.F.	5.0	5.0	0

REF. NO.	IC6003													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
STOP	4.7	4.7	5.1	0	2.6	0	2.6	0	2.0	5.0	2.1	0	0	0
REC	4.7	4.7	5.1	5.0	2.6	0	2.6	0	2.6	5.0	2.4	0	4.7	4.7
F.F.	2.6	2.6	5.1	2.6	2.3	0	2.3	0	2.3	2.8	2.3	0	2.5	2.5

REF. NO.	IC6004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	5.0	4.7	0	4.9	0	0	0	0	0	0	0	0	0	0	5.0	5.0	5.0	0	0
REC	0	5.0	4.7	0	4.9	0	0	5.0	5.0	0	0	5.0	5.0	0	0	5.0	5.0	5.0	0	0
F.F.	0	5.0	4.7	0	4.9	0	0	0	0	0	0	0	0	0	0	5.0	5.0	5.0	0	5.1

REF. NO.	IC6004																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	2.8	0	0	4.7	4.7	4.4	5.0	0.1	0.1	—	—	0	2.2	2.3	4.9	5.1	4.9	4.8	0
REC	0	2.8	0	0	4.7	4.7	4.4	4.7	0.1	0.1	—	—	0	2.2	2.3	4.9	5.1	4.9	4.8	0
F.F.	0	0	0	0	2.5	2.5	4.4	2.3	0.1	0.1	—	—	0	2.2	2.3	4.5	5.1	4.9	4.8	1.3

REF. NO.	IC6004																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	1.3	5.1	5.1	5.0	5.0	0	0	4.6	4.6	4.6	0	4.9	4.8	0.7	4.5	0	0	0	0	0
REC	1.3	5.1	5.1	0	0	5.0	0	4.6	4.6	4.6	0	4.9	4.8	0.7	4.5	0	0	0	0	0
F.F.	1.3	4.9	5.1	5.0	5.0	0	0	4.6	4.6	4.6	0	4.9	4.8	0.7	4.5	0	0	0	0	0

REF. NO.	IC6004																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0.5	0	1.6	5.1	2.5	0.6	5.0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0	0	5.0	0
REC	0.5	0	1.6	5.1	2.5	0.6	5.0	5.0	0	0	5.0	5.0	5.0	0	5.0	0	0	5.0	5.0	0
F.F.	0.5	0	1.6	5.1	2.5	0.6	5.0	5.0	0	0	5.0	5.0	5.0	0	5.0	0	0	0	5.0	0

REF. NO.	IC6004			
MODE	81	82	83	84
STOP	0	0	0.6	0
REC	0	0	0.6	0
F.F.	0	0	0.6	0

REF. NO.	IC6005									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0.2	0.2	0	0	0	12.3	10.1	12.0	0.2
REC	0	0.2	0.2	0	0	0	12.3	10.1	12.0	0.2
F.F.	0	0.2	0.2	0	0	0	12.3	10.1	12.0	0.2

REF. NO.	IC6006															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	0.1	5.1	0.5	5.1	5.0	5.1	5.1	0	1.3	5.1	5.1	1.3	0	4.5	0	5.1
REC	0.1	5.1	0.5	5.1	5.0	5.1	5.1	0	1.3	5.1	5.1	1.3	0	4.5	0	5.1
F.F.	0.1	5.1	0.5	0	5.0	5.1	5.1	0	1.3	5.1	4.9	1.3	1.3	4.5	5.1	5.1

REF. NO.	IC6007										IC6008		
MODE	1	2	3	4	5	6	7	8			1	2	3
STOP	0.1	1.2	0.1	0	1.2	4.8	0.1	5.1			4.8	4.8	0
REC	0.1	1.2	0.1	0	1.2	4.8	0.1	5.1			4.8	4.8	0
F.F.	0.1	1.2	0.1	0	1.2	4.8	0.1	5.1			5.3	5.3	0

REF. NO.	IC6009		
MODE	I	G	O
STOP	13.5	0	12.0
REC	13.5	0	12.0
F.F.	13.5	0	12.0

REF. NO.	IC6010															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	5.0	5.0	5.0	0.9	5.0	0	5.1	0	1.3	4.9	4.9	5.1	4.9	4.8	0	5.1
REC	5.0	5.0	5.0	0.9	5.0	0	5.1	0	1.3	4.9	4.9	5.1	4.9	4.8	0	5.1
F.F.	5.0	5.0	5.0	0.9	5.0	0	5.1	0	1.3	4.9	4.9	6.1	4.9	4.8	0	5.1

REF. NO.	IC6011													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
STOP	0.3	0.1	5.0	2.5	0.5	2.3	1.2	2.5	1.2	0	0.5	0	1.2	0.1
REC	0.3	0.1	5.0	2.5	0.5	2.3	1.2	2.5	1.2	0	0.5	0	1.2	0.1
F.F.	0.3	0.1	5.0	2.5	0.5	2.3	1.2	2.5	1.2	0	0.5	0	1.2	0.1

REF. NO.	IC6012		
MODE	1	2	3
STOP	5.0	5.0	0
REC	5.0	5.0	0
F.F.	5.0	5.0	0

SYSTEM CONTROL ICs DC VOLTAGE CHART

REF. NO.	IC6001													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
STOP	0	0	5.1	0	5.1	5.1	0	0.1	0	5.1	0.2	5.1	5.1	5.1
REC	0	0	5.1	4.8	5.1	5.1	0	2.3	0	5.1	4.8	5.1	5.1	5.1
F.F.	0	0	5.1	2.1	5.1	3.0	0	0.1	0	5.1	2.1	3.0	5.1	5.1

REF. NO.	IC6002		
MODE	1	2	3
STOP	5.0	5.0	0
REC	5.0	5.0	0
F.F.	5.0	5.0	0

REF. NO.	IC6003													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
STOP	4.7	4.7	5.1	0	2.6	0	2.6	0	2.0	5.0	2.1	0	0	0
REC	4.7	4.7	5.1	5.0	2.6	0	2.6	0	2.6	5.0	2.4	0	4.7	4.7
F.F.	2.6	2.6	5.1	2.6	2.3	0	2.3	0	2.3	2.8	2.3	0	2.5	2.5

REF. NO.	IC6004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	5.0	4.7	0	4.9	0	0	0	0	0	0	0	0	0	0	5.0	5.0	5.0	0	0
REC	0	5.0	4.7	0	4.9	0	0	5.0	5.0	0	0	5.0	5.0	0	0	5.0	5.0	5.0	0	0
F.F.	0	5.0	4.7	0	4.9	0	0	0	0	0	0	0	0	0	0	5.0	5.0	5.0	0	5.1

REF. NO.	IC6004																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	2.8	0	0	4.7	4.7	4.4	5.0	0.1	0.1	—	—	0	2.2	2.3	4.9	5.1	4.9	4.8	0
REC	0	2.8	0	0	4.7	4.7	4.4	4.7	0.1	0.1	—	—	0	2.2	2.3	4.9	5.1	4.9	4.8	0
F.F.	0	0	0	0	2.5	2.5	4.4	2.3	0.1	0.1	—	—	0	2.2	2.3	4.5	5.1	4.9	4.8	1.3

REF. NO.	IC6004																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	1.3	5.1	5.1	5.0	5.0	0	0	4.6	4.6	4.6	0	4.9	4.8	0.7	4.5	0	0	0	0	0
REC	1.3	5.1	5.1	0	0	5.0	0	4.6	4.6	4.6	0	4.9	4.8	0.7	4.5	0	0	0	0	0
F.F.	1.3	4.9	5.1	5.0	5.0	0	0	4.6	4.6	4.6	0	4.9	4.8	0.7	4.5	0	0	0	0	0

REF. NO.	IC6004																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0.5	0	1.6	5.1	2.5	0.6	5.0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0	0	5.0	0
REC	0.5	0	1.6	5.1	2.5	0.6	5.0	5.0	0	0	5.0	5.0	5.0	0	5.0	0	0	5.0	5.0	0
F.F.	0.5	0	1.6	5.1	2.5	0.6	5.0	5.0	0	0	5.0	5.0	5.0	0	5.0	0	0	0	5.0	0

REF. NO.	IC6004			
MODE	81	82	83	84
STOP	0	0	0.6	0
REC	0	0	0.6	0
F.F.	0	0	0.6	0

REF. NO.	IC6005									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0.2	0.2	0	0	0	12.3	10.1	12.0	0.2
REC	0	0.2	0.2	0	0	0	12.3	10.1	12.0	0.2
F.F.	0	0.2	0.2	0	0	0	12.3	10.1	12.0	0.2

REF. NO.	IC6006															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	0.1	5.1	0.5	5.1	5.0	5.1	5.1	0	1.3	5.1	5.1	1.3	0	4.5	0	5.1
REC	0.1	5.1	0.5	5.1	5.0	5.1	5.1	0	1.3	5.1	5.1	1.3	0	4.5	0	5.1
F.F.	0.1	5.1	0.5	0	5.0	5.1	5.1	0	1.3	5.1	4.9	1.3	1.3	4.5	5.1	5.1

REF. NO.	IC6007										IC6008		
MODE	1	2	3	4	5	6	7	8			1	2	3
STOP	0.1	1.2	0.1	0	1.2	4.8	0.1	5.1			4.8	4.8	0
REC	0.1	1.2	0.1	0	1.2	4.8	0.1	5.1			4.8	4.8	0
F.F.	0.1	1.2	0.1	0	1.2	4.8	0.1	5.1			5.3	5.3	0

REF. NO.	IC6009		
MODE	I	G	O
STOP	13.5	0	12.0
REC	13.5	0	12.0
F.F.	13.5	0	12.0

REF. NO.	IC6010															
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
STOP	5.0	5.0	5.0	0.9	5.0	0	5.1	0	1.3	4.9	4.9	5.1	4.9	4.8	0	5.1
REC	5.0	5.0	5.0	0.9	5.0	0	5.1	0	1.3	4.9	4.9	5.1	4.9	4.8	0	5.1
F.F.	5.0	5.0	5.0	0.9	5.0	0	5.1	0	1.3	4.9	4.9	6.1	4.9	4.8	0	5.1

REF. NO.	IC6011													
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
STOP	0.3	0.1	5.0	2.5	0.5	2.3	1.2	2.5	1.2	0	0.5	0	1.2	0.1
REC	0.3	0.1	5.0	2.5	0.5	2.3	1.2	2.5	1.2	0	0.5	0	1.2	0.1
F.F.	0.3	0.1	5.0	2.5	0.5	2.3	1.2	2.5	1.2	0	0.5	0	1.2	0.1

REF. NO.	IC6012		
MODE	1	2	3
STOP	5.0	5.0	0
REC	5.0	5.0	0
F.F.	5.0	5.0	0

SYSTEM CONTROL TRs DC VOLTAGE CHART

REF. NO.	Q6001			Q6002			Q6003			Q6004			Q6005			Q6006		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0.7	11.6	0.6	11.1	0	11.6	11.6	0	11.1	0	0	0	0	0	0	0	5.1	0
REC	0.7	11.6	0.6	11.1	0	11.6	11.6	0	11.1	0	0	0	0	0	0	0	5.1	0
F.F.	0.7	11.6	0.6	11.1	0	11.6	11.6	0	11.1	0	0	0	0	0	0	0	5.1	0

REF. NO.	Q6007			Q6009			Q6010			Q6011			Q6012			Q6013		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0.2	0.2	5.1	5.1	4.5	0.6	0.6	1.3	0.6	1.3	0.4	2.0	2.0	2.7	4.8	4.7	4.1
REC	0	11.5	−0.4	5.1	5.1	4.5	0.6	0.6	1.3	0.6	1.3	0.4	2.0	2.0	2.7	4.8	4.7	4.1
F.F.	0	0.2	0.2	5.1	5.1	4.5	0.6	0.6	1.3	0.6	1.3	0.4	0	4.8	0	5.3	−0.1	5.3

REF. NO.	Q6014			Q6015			Q6016			Q6017			Q6018			Q6024		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	0.8	0	12.6	0	12.7	1.4	12.6	0	0	0.7	0	5.1	0.2	12.7	13.5	13.1
REC	0	0	0.8	0	12.6	0	12.7	1.4	12.6	0	0	0.7	0	5.1	0.2	12.7	13.5	13.1
F.F.	0	12.6	0	0	12.6	0	12.7	0	12.6	0	0	0	0	5.1	0	12.7	13.5	13.1

REF. NO.	QR6001			QR6002			QR6003			QR6004			QR6006			QR6007		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	12.3	0	0	0	5.0	0	4.6	4.3	4.8	2.0	0	0	11.3	0	0	0.1	2.1
REC	0	0.1	2.7	0	2.7	0	0	4.6	4.3	4.8	2.0	0	0	11.3	0	0	0.1	2.1
F.F.	0	12.3	0	0	0	5.0	0	4.6	4.3	5.3	4.8	5.1	0	11.3	0	0	0.1	2.1

REF. NO.	QR6008			QR6009			QR6010			QR6011			QR6012			QR6013		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.1	5.1	0	5.1	0.6	4.8	0	11.6	0	5.1	0	6.1	0	10.1	0	0	0	11.8
REC	5.1	5.1	0	5.1	0.6	4.8	0	11.6	0	5.1	0	5.1	0	10.1	0	0	0	11.8
F.F.	5.1	5.1	0	5.1	0.6	4.8	0	11.6	0	5.1	0	5.1	0	10.1	0	0	0	11.8

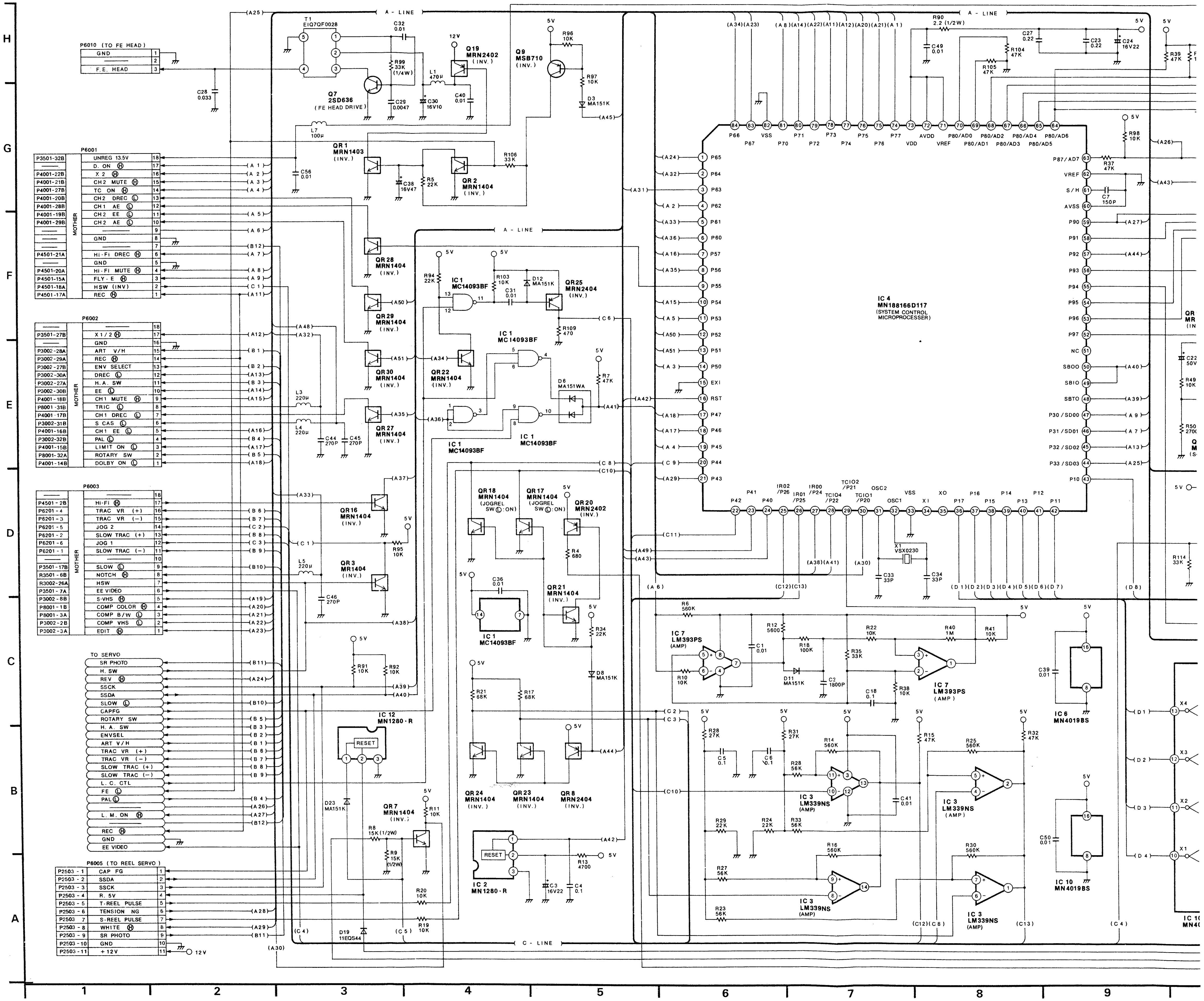
REF. NO.	QR6014			QR6015			QR6016			QR6017			QR6018			QR6019		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	4.8	0. 7	0	1.3	4.8	0	5.0	0	0	5.0	0.6	0	5.0	0.6	12.3	0.3	12.3
REC	0	4.8	0.7	0	1.3	4.8	0	5.0	0	0	5.0	0.6	0	5.0	0.6	12.3	12.1	0.1
F.F.	0	4.8	0.7	0	1.3	4.8	0	5.0	0	0	2.8	0.6	0	2.6	0.6	12.3	0.3	12.3

REF. NO.	QR6020			QR6021			QR6022			QR6023			QR6024			QR6025		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.1	0	5.1	0	5.1	0.6	0	5.1	0	0	0	5.1	0	0	5.1	5.1	0	5.1
REC	5.1	0	5.1	0	5.1	0.6	0	5.1	0	0	0	5.1	0	0	5.1	5.1	0	5.1
F.F.	5.1	0	5.1	0	5.1	0.6	0	5.1	0	0	0	5.1	0	0	5.1	5.1	1.9	3.4

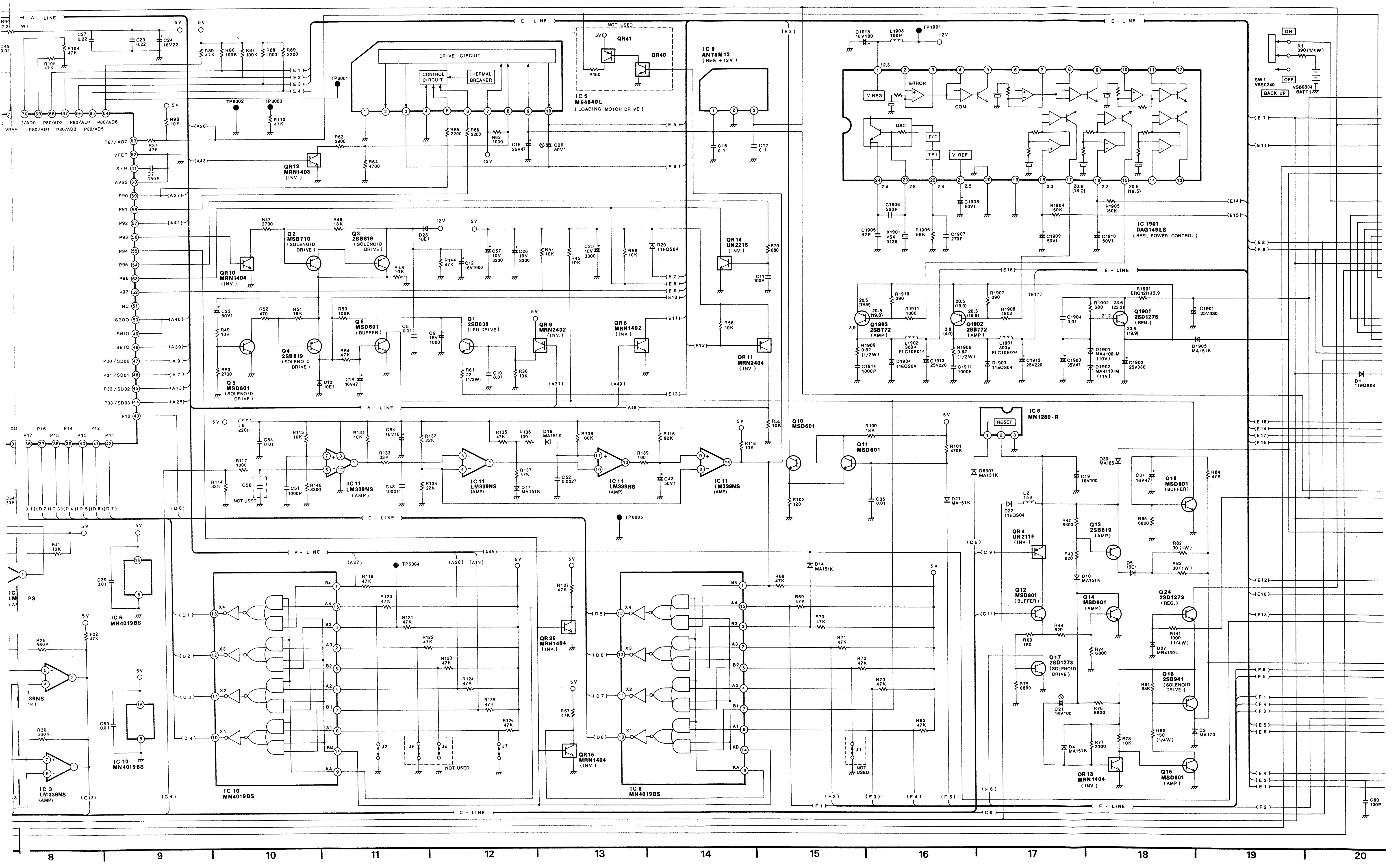
REF. NO.	QR6026			QR6027			QR6028			QR6029			QR6030			QR6040		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	1.3	4.8	0	5.0	0	0	5.0	0	0	5.0	0	0	5.0	0	0	5.1	0.1
REC	0	1.3	4.8	0	0	5.0	0	0	5.0	0	0	5.0	0	0	5.0	0	5.1	0.1
F.F.	0	1.3	4.8	0	5.0	0	0	5.0	0	0	5.0	0	0	5.0	0	0	5.1	0.1

REF. NO.	QR6041		
MODE	E	C	B
STOP	5.1	1.6	5.1
REC	5.1	1.6	5.1
F.F.	5.1	1.6	5.1

SYSTEM CONTROL SCHEMATIC DIAGRAM



H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
P6010 (TO FE HEAD)
GND
F.E. HEAD
P6001
UNREG 13.5V
D. ON Ⓗ
X 2 Ⓗ
CH2 MUTE Ⓗ
TC ON Ⓗ
CH2 DREC Ⓛ
CH1 AE Ⓛ
CH2 EE Ⓛ
CH2 AE Ⓛ
GND
Hi-Fi DREC Ⓗ
GND
Hi-Fi MUTE Ⓗ
FLY-E Ⓗ
HSW (INV)
REC Ⓗ
MOTHER
P6002
X 1/2 Ⓗ
GND
ART V/H
REC Ⓗ
ENV SELECT
DREC Ⓛ
H.A. SW
EE Ⓛ
CH1 MUTE Ⓗ
TRIC Ⓛ
CH1 DREC Ⓛ
S CAS Ⓛ
CH1 EE Ⓛ
PAL Ⓛ
LIMIT ON Ⓛ
ROTARY SW
DOLBY ON Ⓛ
P6003
Hi-Fi Ⓗ
TRAC VR (+)
TRAC VR (−)
JOG 2
SLOW TRAC (+)
JOG 1
SLOW TRAC (−)
SLOW Ⓛ
NOTCH Ⓗ
HSW
EE VIDEO
S-VHS Ⓗ
COMP COLOR Ⓗ
COMP B/W Ⓛ
COMP VHS Ⓛ
EDIT Ⓗ
TO SERVO
SR PHOTO
H. SW
REV Ⓗ
SSCK
SSDA
SLOW Ⓛ
CAPFG
ROTARY SW
H. A. SW
ENVSEL
ART V/H
TRAC VR (+)
TRAC VR (−)
SLOW TRAC (+)
SLOW TRAC (−)
L. C. CTL
FE Ⓛ
PAL Ⓛ
L. M. ON Ⓗ
REC Ⓗ
GND
EE VIDEO
P6005 (TO REEL SERVO)
CAP FG
SSDA
SSCK
R. 5V
T-REEL PULSE
TENSION NG
S-REEL PULSE
WHITE Ⓗ
SR PHOTO
GND
+12V
12V
A - LINE
C - LINE
T1 EIQ7QF0028
Q7 2SD636 (FE HEAD DRIVE)
Q19 MRN2402 (INV.)
Q9 MSB710 (INV.)
QR1 MRN1403 (INV.)
QR2 MRN1404 (INV.)
QR28 MRN1404 (INV.)
QR29 MRN1404 (INV.)
QR30 MRN1404 (INV.)
QR27 MRN1404 (INV.)
QR16 MRN1404 (INV.)
QR3 MR1404 (INV.)
QR22 MRN1404 (INV.)
QR25 MRN2404 (INV.)
QR18 MRN1404 (JOGREL SW Ⓛ:ON)
QR17 MRN1404 (JOGREL SW Ⓛ:ON)
QR20 MRN2402 (INV.)
QR21 MRN1404 (INV.)
QR24 MRN1404 (INV.)
QR23 MRN1404 (INV.)
QR8 MRN2404 (INV.)
QR7 MRN1404 (INV.)
IC1 MC14093BF
IC12 MN1280-R
IC2 MN1280-R
RESET
D19 11EQS44
D23 MA151K
D3 MA151K
D6 MA151WA
D8 MA151K
D11 MA151K
D12 MA151K
X1 VSX0230
IC4 MN188166D117 (SYSTEM CONTROL MICROPROCESSER)
IC7 LM393PS (AMP)
IC3 LM339NS (AMP)
IC6 MN4019BS
IC10 MN4019BS
P65
P64
P63
P62
P61
P60
P57
P56
P55
P54
P53
P52
P51
P50
EXI
RST
P47
P46
P45
P44
P43
P66
VSS
P67
P70
P71
P72
P73
P74
P75
P76
P77
AVDD
VDD
VREF
P80/AD0
P80/AD1
P80/AD2
P80/AD3
P80/AD4
P80/AD5
P80/AD6
P87/AD7
VREF
S/H
AVSS
P90
P91
P92
P93
P94
P95
P96
P97
NC
SBOO
SBIO
SBTO
P30/SD00
P31/SD01
P32/SD02
P33/SD03
P10
P42
P41
P40
IR02/P26
IR01/P25
IR00/P24
TCIO4/P22
TCIO2/P21
TCIO1/P20
OSC2
OSC1
VSS
XI
XO
P17
P16
P15
P14
P13
P12
P11


A - LINE
E - LINE
D - LINE
C - LINE
F - LINE
DRIVE CIRCUIT
CONTROL CIRCUIT
THERMAL BREAKER
IC 5
M54649L
(LOADING MOTOR DRIVE)
NOT USED
QR41
QR40
R150
IC 9
AN78M12
(REG + 12V)
TP1901
12V
C1915 16V100
L1903 100μ
ERROR
V REG
COM
OSC
F/F
TRI
V REF
IC 1901
DAG149LS
(REEL POWER CONTROL)
SW1 VSS0240
ON
OFF
BACK UP
R1 390 (1/4W)
VSB0004 BATT1
TP6001
TP6002
TP6003
TP6004
TP6005
QR12 MRN1403 (INV.)
QR10 MRN1404 (INV.)
Q2 MSB710 (SOLENOID DRIVE)
Q3 2SB819 (SOLENOID DRIVE)
Q4 2SB819 (SOLENOID DRIVE)
Q5 MSD601 (SOLENOID DRIVE)
Q6 MSD601 (BUFFER)
Q1 2SD638 (LED DRIVE)
QR9 MRN2402 (INV.)
QR6 MRN1402 (INV.)
QR14 UN2215 (INV.)
QR11 MRN2404 (INV.)
Q1903 2SB772 (AMP)
Q1902 2SB772 (AMP)
Q1901 2SD1275 (REG.)
D1905 MA151K
D1 11EQS04
IC 11 LM339NS (AMP)
Q10 MSD601
Q11 MSD601
IC 8 MN1280-R
RESET
Q18 MSD601 (BUFFER)
Q13 2SB819 (AMP)
QR4 UN211F (INV.)
Q12 MSD601 (BUFFER)
Q14 MSD601 (AMP)
Q24 2SD1273 (REG.)
Q17 2SD1273 (SOLENOID DRIVE)
Q16 2SB941 (SOLENOID DRIVE)
QR13 MRN1404 (INV.)
Q15 MSD601 (AMP)
IC 10 MN4019BS
IC 6 MN4019BS
QR26 MRN1404 (INV.)
QR15 MRN1404 (INV.)
J1 NOT USED
J3
J4
J5
J7
NOT USED
IC 3 LM339NS (AMP)
C60 100P
8
9
10
11
12
13
14
15
16
17
18
19
20

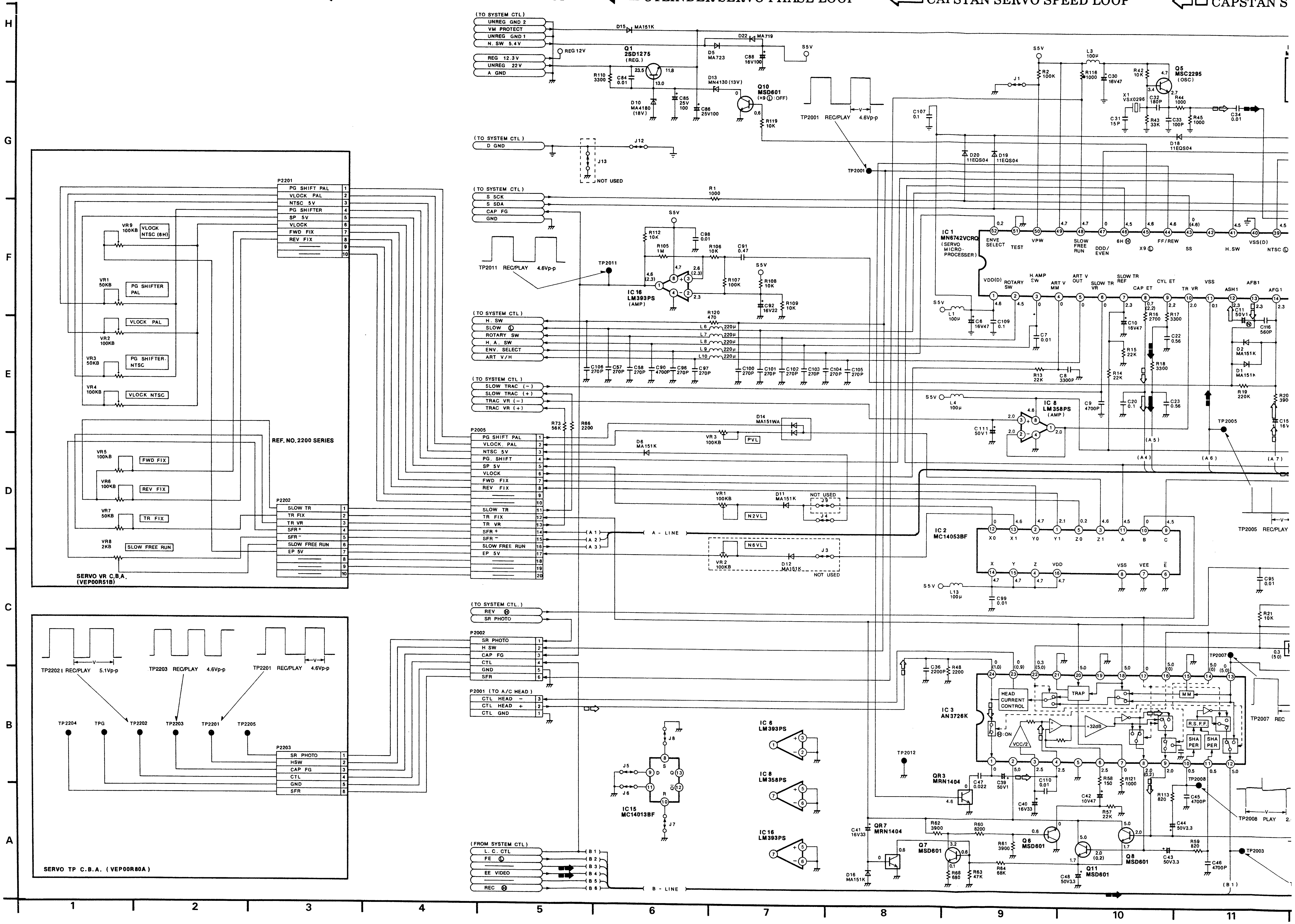
SERVO SCHEMATIC DIAGRAM

CYLINDER SERVO SPEED LOOP

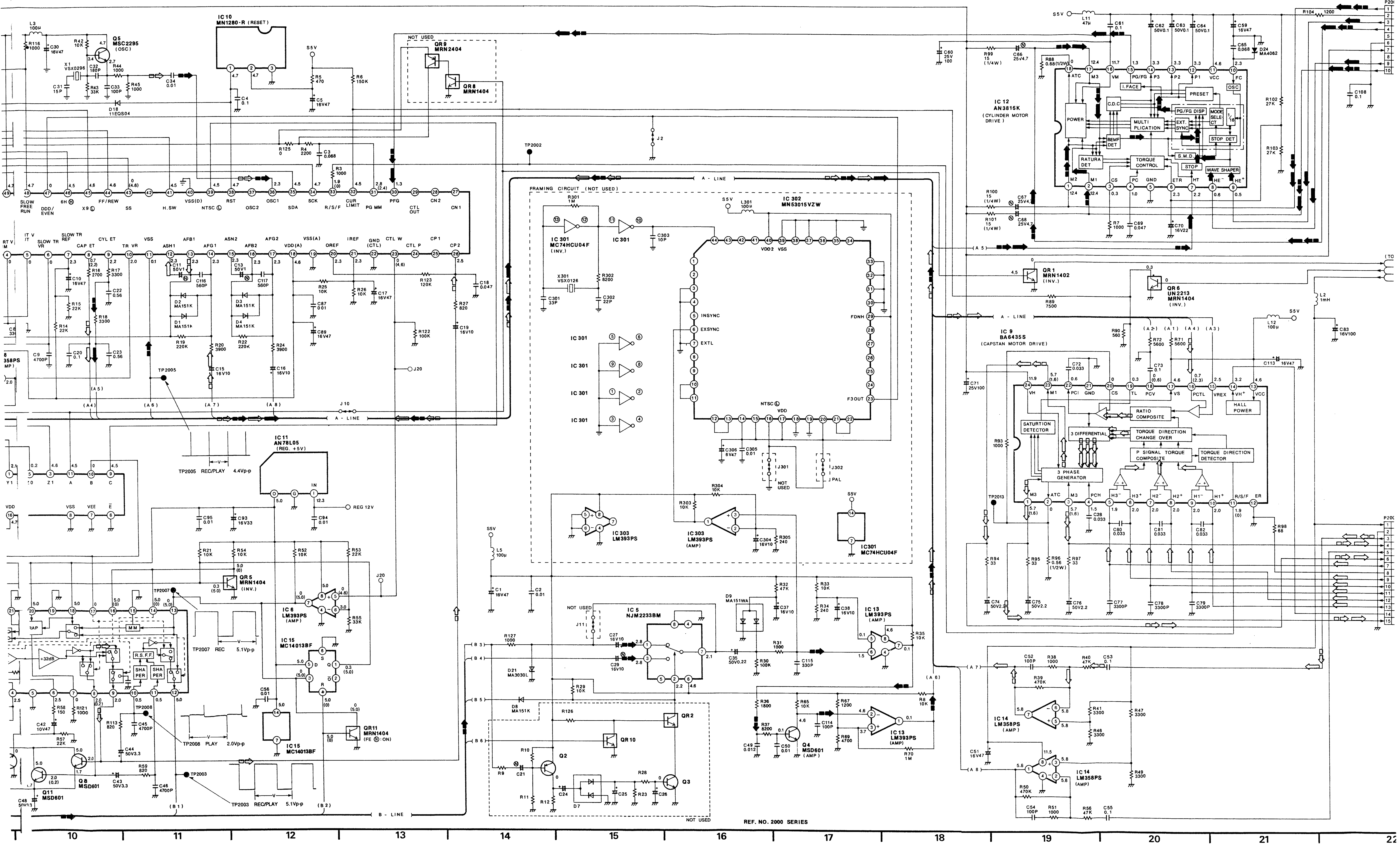
CYLINDER SERVO PHASE LOOP

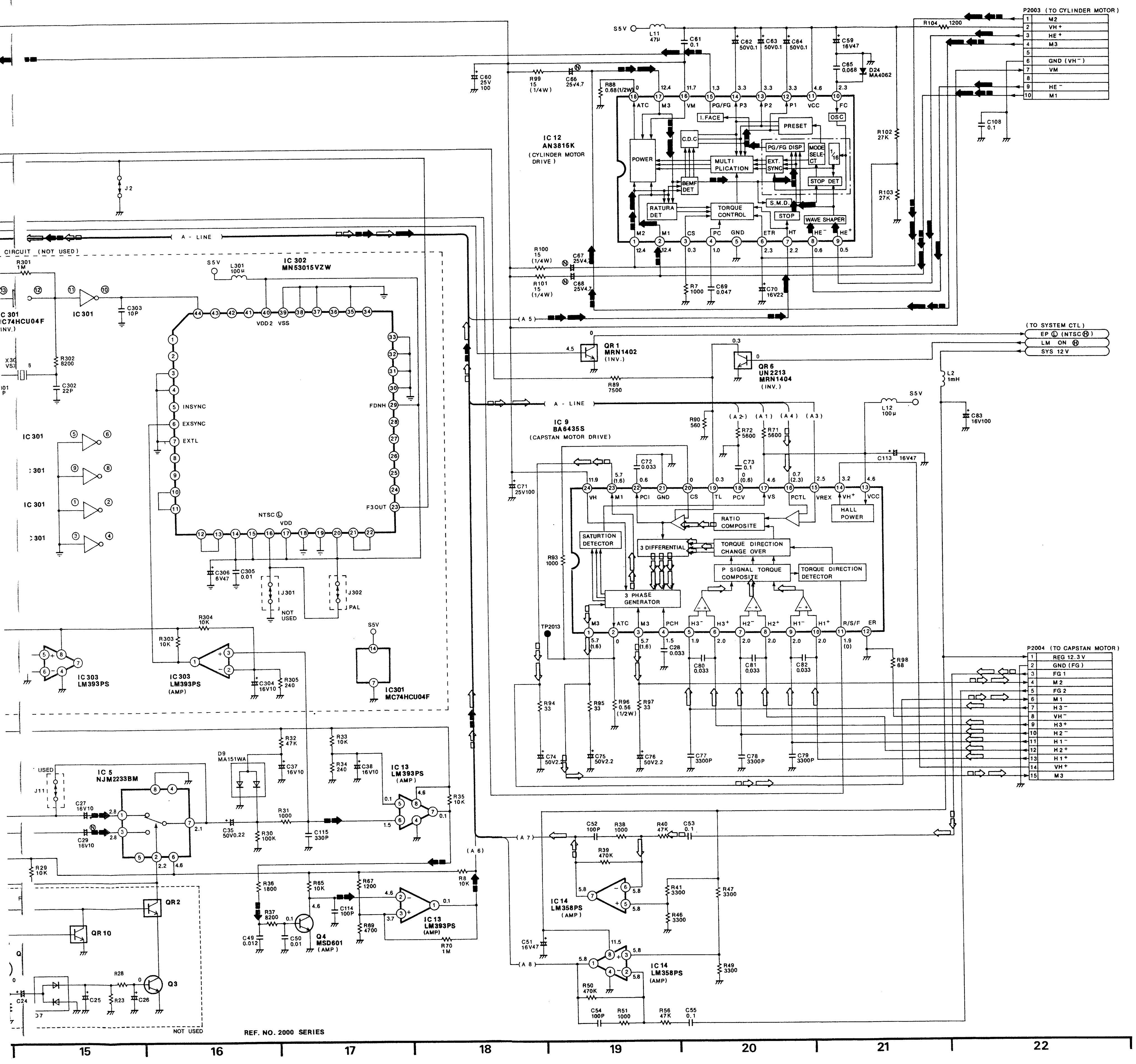
CAPSTAN SERVO SPEED LOOP

CAPSTAN S


H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
(TO SYSTEM CTL)
UNREG GND 2
VM PROTECT
UNREG GND 1
N. SW 5.4V
REG 12.3V
UNREG 22V
A GND
REG 12V
Q1 2SD1275 (REG.)
Q10 MSD601 (×9 ①: OFF)
D GND
J12
J13
NOT USED
S SCK
S SDA
CAP FG
GND
TP2011 REC/PLAY 4.6Vp-p
TP2001 REC/PLAY 4.6Vp-p
IC16 LM393PS (AMP)
H. SW
SLOW ①
ROTARY SW
H. A. SW
ENV. SELECT
ART V/H
SLOW TRAC (−)
SLOW TRAC (+)
TRAC VR (−)
TRAC VR (+)
IC1 MN6742VCRQ (SERVO MICRO-PROCESSER)
Q5 MSC2295 (OSC)
X1 VSX0296
IC8 LM358PS (AMP)
IC2 MC14053BF
IC3 AN3726K
HEAD CURRENT CONTROL
TRAP
+32dB
R.S.F.F.
SHA PER
VCC/2
QR3 MRN1404
QR7 MRN1404
Q6 MSD601
Q7 MSD601
Q8 MSD601
Q11 MSD601
P2201
PG SHIFT PAL
VLOCK PAL
NTSC 5V
PG SHIFTER
SP 5V
VLOCK
FWD FIX
REV FIX
VR9 100KB VLOCK NTSC (6H)
VR1 50KB PG SHIFTER PAL
VR2 100KB VLOCK PAL
VR3 50KB PG SHIFTER NTSC
VR4 100KB VLOCK NTSC
REF. NO. 2200 SERIES
VR5 100KB FWD FIX
VR6 100KB REV FIX
VR7 50KB TR FIX
VR8 2KB SLOW FREE RUN
P2202
SLOW TR
TR FIX
TR VR
SFR+
SFR−
SLOW FREE RUN
EP 5V
SERVO VR C.B.A. (VEP00R51B)
P2005
PVL
N2VL
N6VL
A - LINE
(TO SYSTEM CTL.)
REV ®
SR PHOTO
P2002
SR PHOTO
H SW
CAP FG
CTL
GND
SFR
P2001 (TO A/C HEAD)
CTL HEAD −
CTL HEAD +
CTL GND
TP2202 REC/PLAY 5.1Vp-p
TP2203 REC/PLAY 4.6Vp-p
TP2201 REC/PLAY 4.6Vp-p
TP2204
TPG
TP2202
TP2203
TP2201
TP2205
P2203
SERVO TP C.B.A. (VEP00R80A)
IC15 MC14013BF
IC6 LM393PS
IC8 LM358PS
IC16 LM393PS
(FROM SYSTEM CTL)
L. C. CTL
FE ①
EE VIDEO
REC ®
B - LINE
TP2005 REC/PLAY
TP2007 REC
TP2008 PLAY
TP2012
TP2003

PE⁻D LOOP   ⇦□ CAPSTAN SERVO PHASE LOOP


IC10 MN1280-R (RESET)
Q5 MSC2295 (OSC)
X1 VSX0296
D18 11EQS04
NOT USED
QR9 MRN2404
QR8 MRN1404
S5V
TP2002
J2
A - LINE
B - LINE
SLOW FREE RUN
DDD/EVEN
6H
X9
FF/REW
SS
H.SW
VSS(D)
NTSC
RST
OSC1
OSC2
SDA
SCK
R/S/F
CUR LIMIT
PG MM
PFG
CTL OUT
CN2
CN1
CAP ET
CYL ET
TR VR
VSS
ASH1
AFB1
AFG1
ASN2
AFB2
AFG2
VDD(A)
VSS(A)
OREF
IREF
GND (CTL)
CTL W
CTL P
CP1
CP2
TP2005
TP2005 REC/PLAY 4.4Vp-p
J10
J20
IC11 AN78L05 (REG. +5V)
REG 12V
QR5 MRN1404 (INV.)
IC6 LM393PS (AMP)
IC15 MC14013BF
QR11 MRN1404 (FE Ⓝ: ON)
TP2007
TP2007 REC 5.1Vp-p
TP2008
TP2008 PLAY 2.0Vp-p
TP2003
TP2003 REC/PLAY 5.1Vp-p
Q8 MSD601
Q11 MSD601
+32dB
R.S.F.F.
SHAPER
MM
FRAMING CIRCUIT (NOT USED)
IC301 MC74HCU04F (INV.)
X301 VSX0126
IC302 MN53015VZW
INSYNC
EXSYNC
EXTL
FDNH
F3OUT
NTSC
VDD
VDD2 VSS
J301 NOT USED
J302 J PAL
IC303 LM393PS
IC303 LM393PS (AMP)
IC301 MC74HCU04F
IC5 NJM2233BM
NOT USED J11
D21 MA3030L
D8 MA151K
D9 MA151WA
QR2
QR10
Q2
Q3
D7
IC13 LM393PS (AMP)
Q4 MSD601 (AMP)
IC12 AN3815K (CYLINDER MOTOR DRIVE)
POWER
C.D.C
I.FACE
PRESET
OSC
PG/FG DISP
MODE SELECT
MULTIPLICATION
EXT. SYNC
BEMF DET
STOP DET
RATURA DET
TORQUE CONTROL
S.M.D.
STOP
WAVE SHAPER
ATC
M3
VM
PG/FG
P3
P2
P1
VCC
FC
M2
M1
CS
PC
GND
ETR
HT
HE⁻
HE⁺
QR1 MRN1402 (INV.)
QR6 UN2213 MRN1404 (INV.)
IC9 BA6435S (CAPSTAN MOTOR DRIVE)
VH
PCI
TL
PCV
VS
PCTL
VREX
VH⁺
RATIO COMPOSITE
HALL POWER
SATURTION DETECTOR
3 DIFFERENTIAL
TORQUE DIRECTION CHANGE OVER
P SIGNAL TORQUE COMPOSITE
TORQUE DIRECTION DETECTOR
3 PHASE GENERATOR
PCH
H3⁻ H3⁺ H2⁻ H2⁺ H1⁻ H1⁺
R/S/F ER
TP2013
IC14 LM358PS (AMP)
P200
NOT USED
REF. NO. 2000 SERIES
10 11 12 13 14 15 16 17 18 19 20 21 22

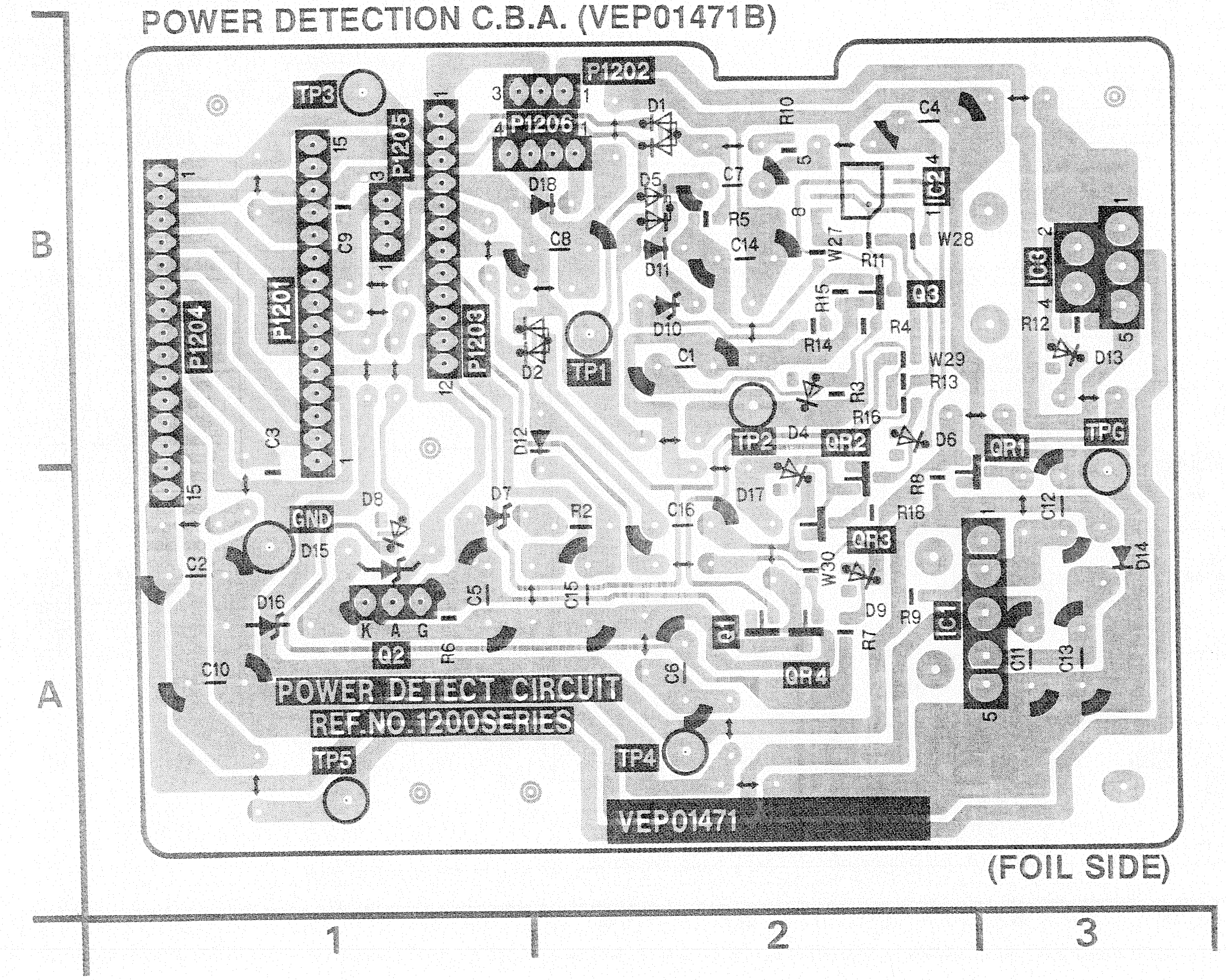

P2003 (TO CYLINDER MOTOR)
M2
VH+
HE+
M3
GND (VH−)
VM
HE−
M1
R104 1200
S5V
L11 47μ
C61 0.1
C62 50V0.1
C63 50V0.1
C64 50V0.1
C59 16V47
C65 0.068
D24 MA4062
C60 25V 100
R99 15 (1/4W)
C66 25V4.7
R88 0.68(1/2W)
IC 12
AN3815K
(CYLINDER MOTOR DRIVE)
ATC
VM
PG/FG
P3
P2
P1
VCC
FC
I.FACE
PRESET
OSC
C.D.C
PG/FG DISP
MODE SELECT
EXT SYNC
POWER
MULTI PLICATION
BEMF DET
STOP DET
RATURA DET
TORQUE CONTROL
S.M.D.
STOP
WAVE SHAPER
CS
PC
GND
ETR
HT
HE−
HE+
R100 15 (1/4W)
C67 25V4.7
R101 15 (1/4W)
C68 25V4.7
R7 1000
C69 0.047
C70 16V22
R102 27K
R103 27K
C108 0.1
J2
A - LINE
CIRCUIT (NOT USED)
R301 1M
IC 302
MN53015VZW
L301 100μ
VDD2
VSS
C303 10P
IC 301
IC74HCU04F
(INV.)
R302 8200
C302 22P
INSYNC
EXSYNC
EXTL
FDNH
F3OUT
NTSC Ⓛ
VDD
C306 6V47
C305 0.01
J301
J302
J PAL
NOT USED
A 5
(TO SYSTEM CTL)
EP Ⓛ (NTSCⒽ)
LM ON Ⓗ
SYS 12V
QR 1
MRN1402
(INV.)
R89 7500
QR 6
UN2213
MRN1404
(INV.)
L2 1mH
R90 560
R72 5600
R71 5600
L12 100μ
C83 16V100
IC 9
BA6435S
(CAPSTAN MOTOR DRIVE)
C72 0.033
C73 0.1
C113 16V47
C71 25V100
VH
M1
PCI
GND
TL
PCV
VS
PCTL
VREX
VH+
VCC
RATIO COMPOSITE
HALL POWER
SATURTION DETECTOR
3 DIFFERENTIAL
TORQUE DIRECTION CHANGE OVER
P SIGNAL TORQUE COMPOSITE
TORQUE DIRECTION DETECTOR
3 PHASE GENERATOR
R93 1000
TP2013
PCH
H3−
H3+
H2−
H2+
H1−
H1+
R/S/F
ER
C28 0.033
C80 0.033
C81 0.033
C82 0.033
R98 68
R94 33
R95 33
R96 0.56 (1/2W)
R97 33
C74 50V2.2
C75 50V2.2
C76 50V2.2
C77 3300P
C78 3300P
C79 3300P
P2004 (TO CAPSTAN MOTOR)
REG 12.3V
GND (FG)
FG 1
M2
FG 2
M1
H3−
VH−
H3+
H2−
H1−
H2+
H1+
VH+
M3
R304 10K
R303 10K
IC 303
LM393PS
(AMP)
C304 16V10
R305 240
S5V
IC301
MC74HCU04F
IC 5
NJM2233BM
J11
USED
C27 16V10
C29 16V10
C35 50V0.22
R30 100K
R31 1000
C115 330P
D9
MA151WA
R32 47K
C37 16V10
R33 10K
R34 240
C38 16V10
IC 13
LM393PS
(AMP)
R35 10K
A 6
A 7
R8 10K
R29 10K
QR2
QR 10
R36 1800
R37 8200
C49 0.012
C50 0.01
Q4
MSD601
(AMP)
R65 10K
C114 100P
R67 1200
R69 4700
R70 1M
C52 100P
R38 1000
R40 47K
C53 0.1
R39 470K
IC 14
LM358PS
(AMP)
R41 3300
R46 3300
R47 3300
C51 16V47
A 8
R49 3300
R50 470K
C54 100P
R51 1000
R56 47K
C55 0.1
R28
C24
C25
R23
C26
Q3
NOT USED
REF. NO. 2000 SERIES
15
16
17
18
19
20
21
22

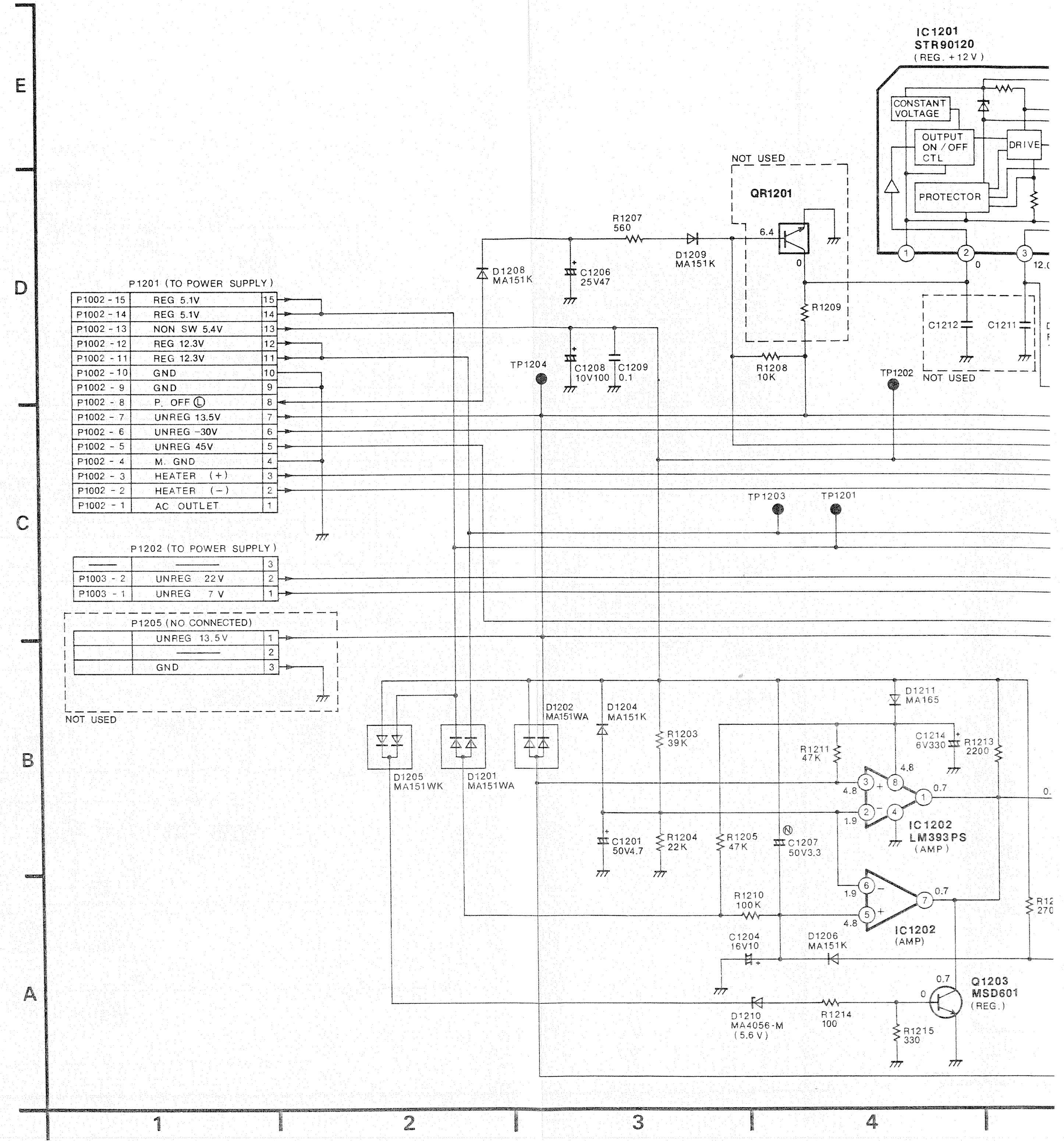
POWER DET C.B.A.	
Transistor	
Q1201 Q1202 Q1203	A-2 Ⓕ A-1 Ⓕ B-2 Ⓕ
Transistor & Resistor	
QR1201 QR1202 QR1203 QR1204	B-3 Ⓕ B-2 Ⓕ A-2 Ⓕ A-2 Ⓕ
Integrated Circuit	
IC1201 IC1202 IC1203	A-2 Ⓕ B-2 Ⓕ B-3 Ⓕ
Test Point	
TP1201 TP1202 TP1203 TP1204 TP1205 TPG	B-2 Ⓕ B-2 Ⓕ B-1 Ⓕ A-2 Ⓕ A-1 Ⓕ B-3 Ⓕ
Connector	
P1201 P1202 P1203 P1204 P1205 P1206	B-1 Ⓕ B-2 Ⓕ B-1 Ⓕ B-1 Ⓕ B-1 Ⓕ B-2 Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

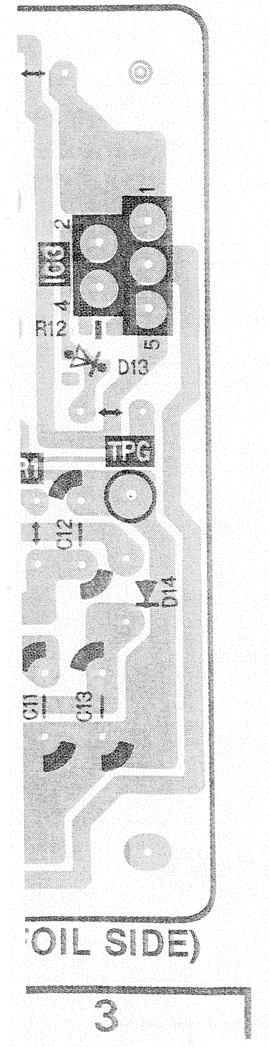
POWER DETECTION C.B.A. (VEP01471B)

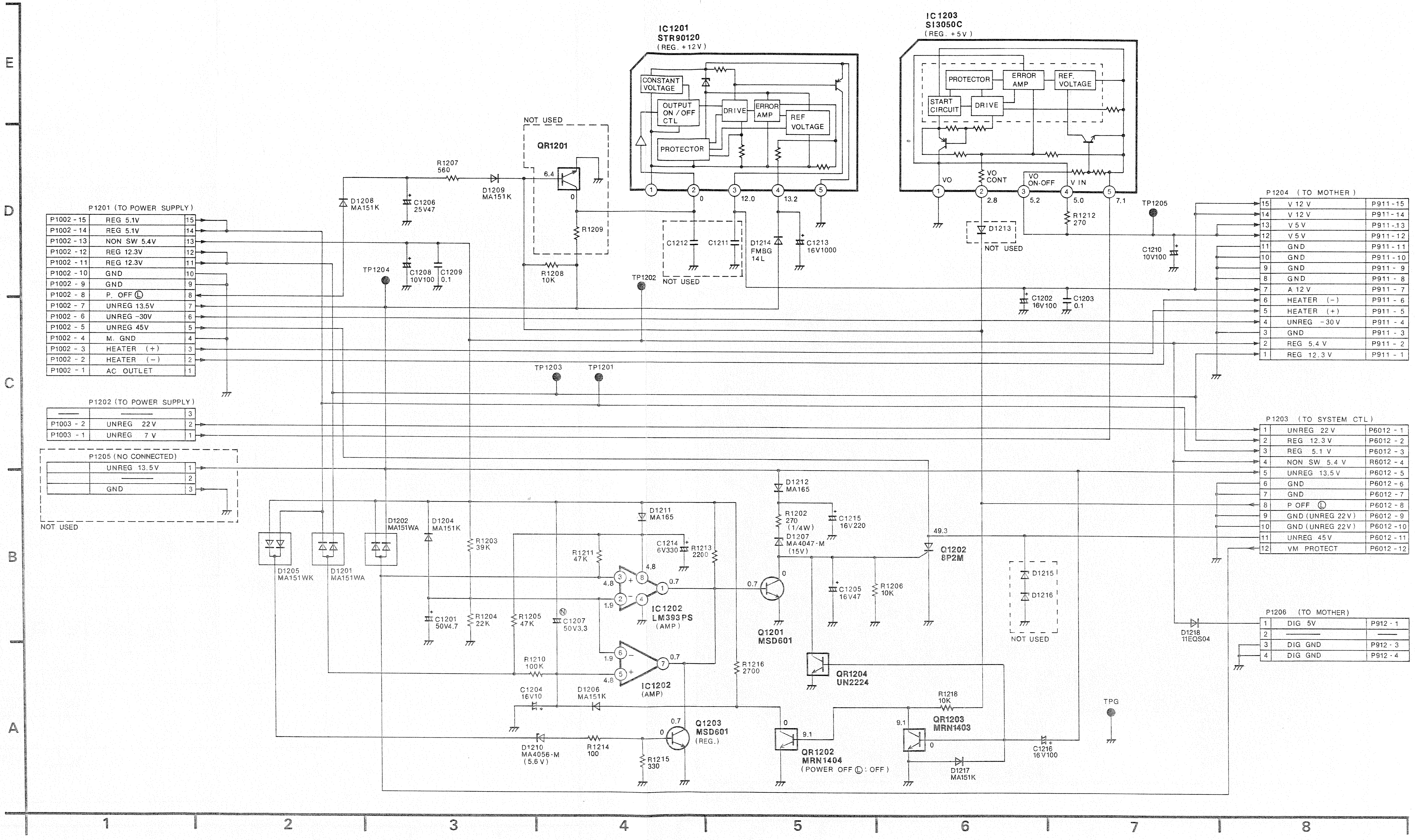
POWER DETECTION SCHEMATIC DIAGRAM


POWER DETECTION C.B.A. (VEP01471B)
TP3
P1205
P1206
P1202
P1204
P1201
P1203
TP1
TP2
TP4
TP5
TPG
GND
QR1
QR2
QR3
QR4
Q2
Q3
IC1
IC2
IC3
K A G
POWER DETECT CIRCUIT
REF.NO.1200SERIES
VEP01471
(FOIL SIDE)
A
B
1
2
3

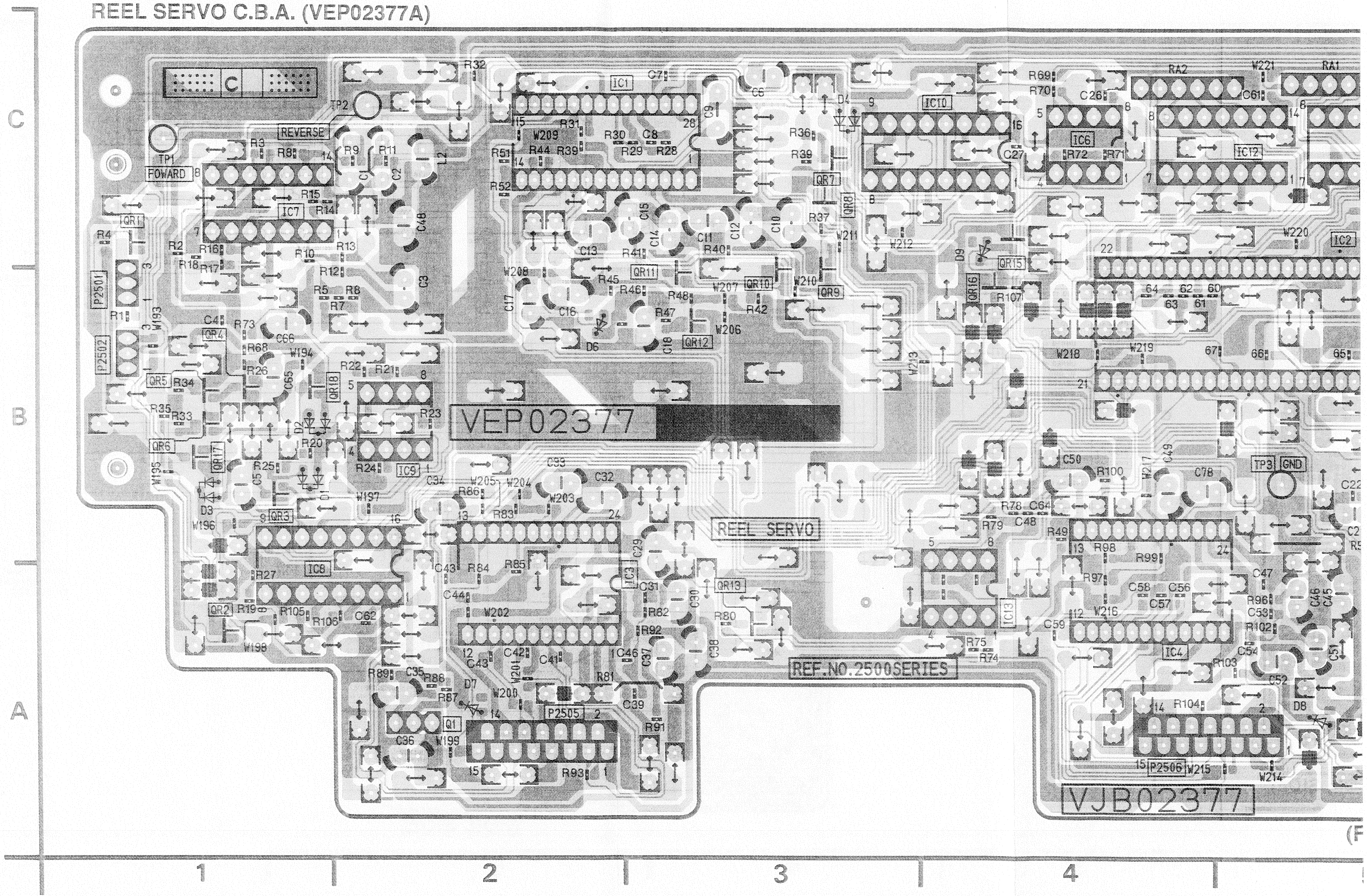

IC1201
STR90120
(REG. +12V)
CONSTANT VOLTAGE
OUTPUT ON / OFF CTL
DRIVE
PROTECTOR
NOT USED
QR1201
R1207 560
D1209 MA151K
D1208 MA151K
C1206 25V47
C1208 10V100
C1209 0.1
R1209
R1208 10K
C1212
C1211
TP1204
TP1202
TP1203
TP1201
P1201 (TO POWER SUPPLY)
P1002 - 15 REG 5.1V 15
P1002 - 14 REG 5.1V 14
P1002 - 13 NON SW 5.4V 13
P1002 - 12 REG 12.3V 12
P1002 - 11 REG 12.3V 11
P1002 - 10 GND 10
P1002 - 9 GND 9
P1002 - 8 P. OFF Ⓛ 8
P1002 - 7 UNREG 13.5V 7
P1002 - 6 UNREG -30V 6
P1002 - 5 UNREG 45V 5
P1002 - 4 M. GND 4
P1002 - 3 HEATER (+) 3
P1002 - 2 HEATER (−) 2
P1002 - 1 AC OUTLET 1
P1202 (TO POWER SUPPLY)
P1003 - 2 UNREG 22V 2
P1003 - 1 UNREG 7 V 1
P1205 (NO CONNECTED)
UNREG 13.5V 1
GND 3
NOT USED
D1205 MA151WK
D1201 MA151WA
D1202 MA151WA
D1204 MA151K
R1203 39K
C1201 50V4.7
R1204 22K
R1205 47K
C1207 50V3.3
R1211 47K
D1211 MA165
C1214 6V330
R1213 2200
IC1202 LM393PS (AMP)
IC1202 (AMP)
R1210 100K
C1204 16V10
D1206 MA151K
D1210 MA4056-M (5.6V)
R1214 100
R1215 330
Q1203 MSD601 (REG.)
6.4
0
12.
4.8
1.9
0.7
A
B
C
D
E
1
2
3
4

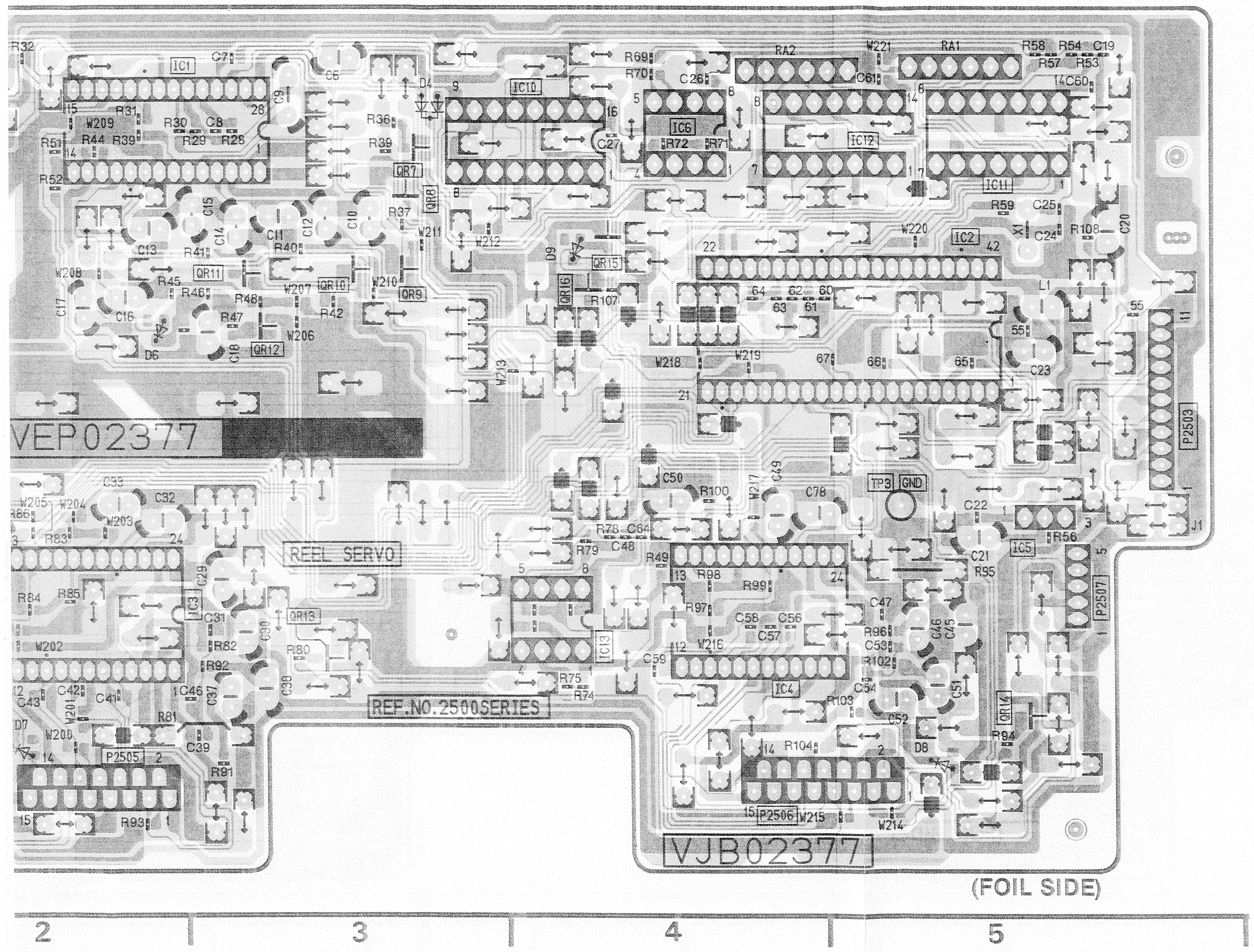
POWER DETECTION SCHEMATIC DIAGRAM


R12
D13
TPG
C12
D14
C11
C13
FOIL SIDE)
3


IC1201
STR90120
(REG. +12V)
CONSTANT VOLTAGE
OUTPUT ON / OFF CTL
DRIVE
ERROR AMP
REF VOLTAGE
PROTECTOR
IC1203
SI3050C
(REG. +5V)
PROTECTOR
ERROR AMP
REF. VOLTAGE
START CIRCUIT
DRIVE
VO
VO CONT
VO ON-OFF
V IN
NOT USED
QR1201
6.4
0
R1207 560
D1209 MA151K
D1208 MA151K
C1206 25V47
R1209
R1208 10K
C1208 10V100
C1209 0.1
TP1204
TP1202
C1212
C1211
D1214 FMBG 14L
C1213 16V1000
12.0
13.2
2.8
5.2
5.0
7.1
D1213
R1212 270
TP1205
C1210 10V100
C1202 16V100
C1203 0.1
TP1203
TP1201
P1201 (TO POWER SUPPLY)
P1002 - 15 REG 5.1V 15
P1002 - 14 REG 5.1V 14
P1002 - 13 NON SW 5.4V 13
P1002 - 12 REG 12.3V 12
P1002 - 11 REG 12.3V 11
P1002 - 10 GND 10
P1002 - 9 GND 9
P1002 - 8 P. OFF Ⓛ 8
P1002 - 7 UNREG 13.5V 7
P1002 - 6 UNREG -30V 6
P1002 - 5 UNREG 45V 5
P1002 - 4 M. GND 4
P1002 - 3 HEATER (+) 3
P1002 - 2 HEATER (−) 2
P1002 - 1 AC OUTLET 1
P1202 (TO POWER SUPPLY)
3
P1003 - 2 UNREG 22V 2
P1003 - 1 UNREG 7V 1
P1205 (NO CONNECTED)
UNREG 13.5V 1
2
GND 3
NOT USED
P1204 (TO MOTHER)
15 V 12 V P911-15
14 V 12 V P911-14
13 V 5 V P911-13
12 V 5 V P911-12
11 GND P911-11
10 GND P911-10
9 GND P911-9
8 GND P911-8
7 A 12 V P911-7
6 HEATER (−) P911-6
5 HEATER (+) P911-5
4 UNREG -30 V P911-4
3 GND P911-3
2 REG 5.4 V P911-2
1 REG 12.3 V P911-1
P1203 (TO SYSTEM CTL)
1 UNREG 22 V P6012-1
2 REG 12.3 V P6012-2
3 REG 5.1 V P6012-3
4 NON SW 5.4 V P6012-4
5 UNREG 13.5 V P6012-5
6 GND P6012-6
7 GND P6012-7
8 P OFF Ⓛ P6012-8
9 GND (UNREG 22V) P6012-9
10 GND (UNREG 22V) P6012-10
11 UNREG 45V P6012-11
12 VM PROTECT P6012-12
P1206 (TO MOTHER)
1 DIG 5V P912-1
2
3 DIG GND P912-3
4 DIG GND P912-4
D1218 11EQS04
D1205 MA151WK
D1201 MA151WA
D1202 MA151WA
D1204 MA151K
R1203 39K
D1211 MA165
C1214 6V330
R1213 2200
R1211 47K
4.8
1.9
0.7
IC1202 LM393PS (AMP)
C1201 50V4.7
R1204 22K
R1205 47K
C1207 50V3.3
R1210 100K
C1204 16V10
D1206 MA151K
IC1202 (AMP)
D1210 MA4056-M (5.6V)
R1214 100
R1215 330
Q1203 MSD601 (REG.)
D1212 MA165
R1202 270 (1/4W)
C1215 16V220
D1207 MA4047-M (15V)
Q1201 MSD601
C1205 16V47
R1206 10K
R1216 2700
49.3
Q1202 8P2M
D1215
D1216
NOT USED
QR1204 UN2224
R1218 10K
QR1203 MRN1403
9.1
QR1202 MRN1404 (POWER OFF Ⓛ: OFF)
D1217 MA151K
C1216 16V100
TPG
E
D
C
B
A
1
2
3
4
5
6
7
8

REEL SERVO C.B.A. (VEP02377A)


REEL SERVO C.B.A. (VEP02377A)
C
B
A
1
2
3
4
TP1
TP2
TP3
GND
FOWARD
REVERSE
P2501
P2502
P2505
P2506
IC1
IC2
IC3
IC4
IC6
IC7
IC8
IC9
IC10
IC12
IC13
QR1
QR2
QR3
QR4
QR5
QR6
QR7
QR8
QR9
QR10
QR11
QR12
QR13
QR15
QR16
QR17
QR18
Q1
RA1
RA2
VEP02377
REEL SERVO
REF.NO.2500SERIES
VJB02377
D1
D2
D3
D4
D6
D7
D8
D9
L2
(F

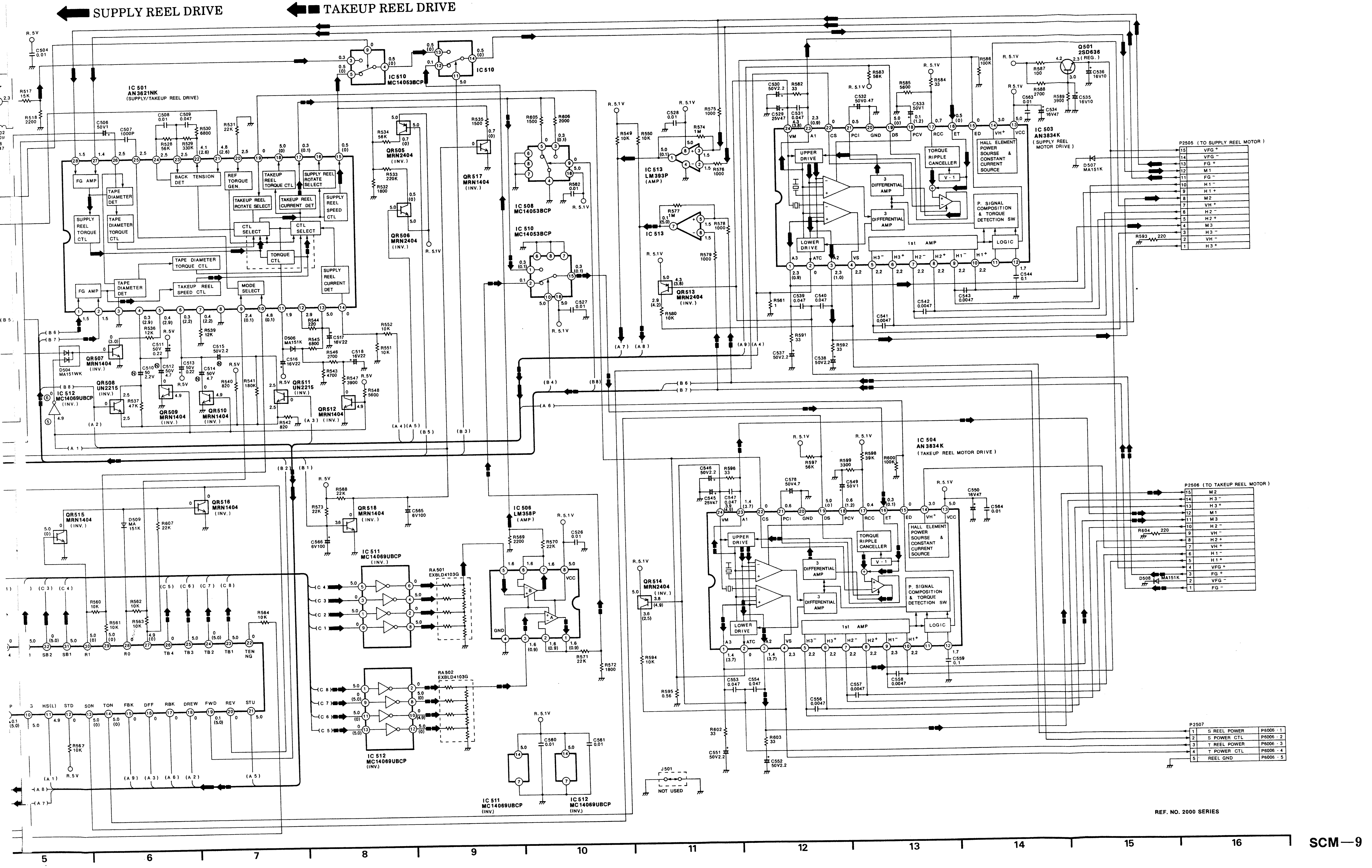


REEL SERVO
REF.NO.2500SERIES
VEP02377
VJB02377
IC1
IC2
IC3
IC4
IC5
IC6
IC10
IC11
IC12
IC13
RA1
RA2
P2503
P2505
P2506
P2507
TP3
GND
J1
2
3
4
5

(FOIL SIDE)

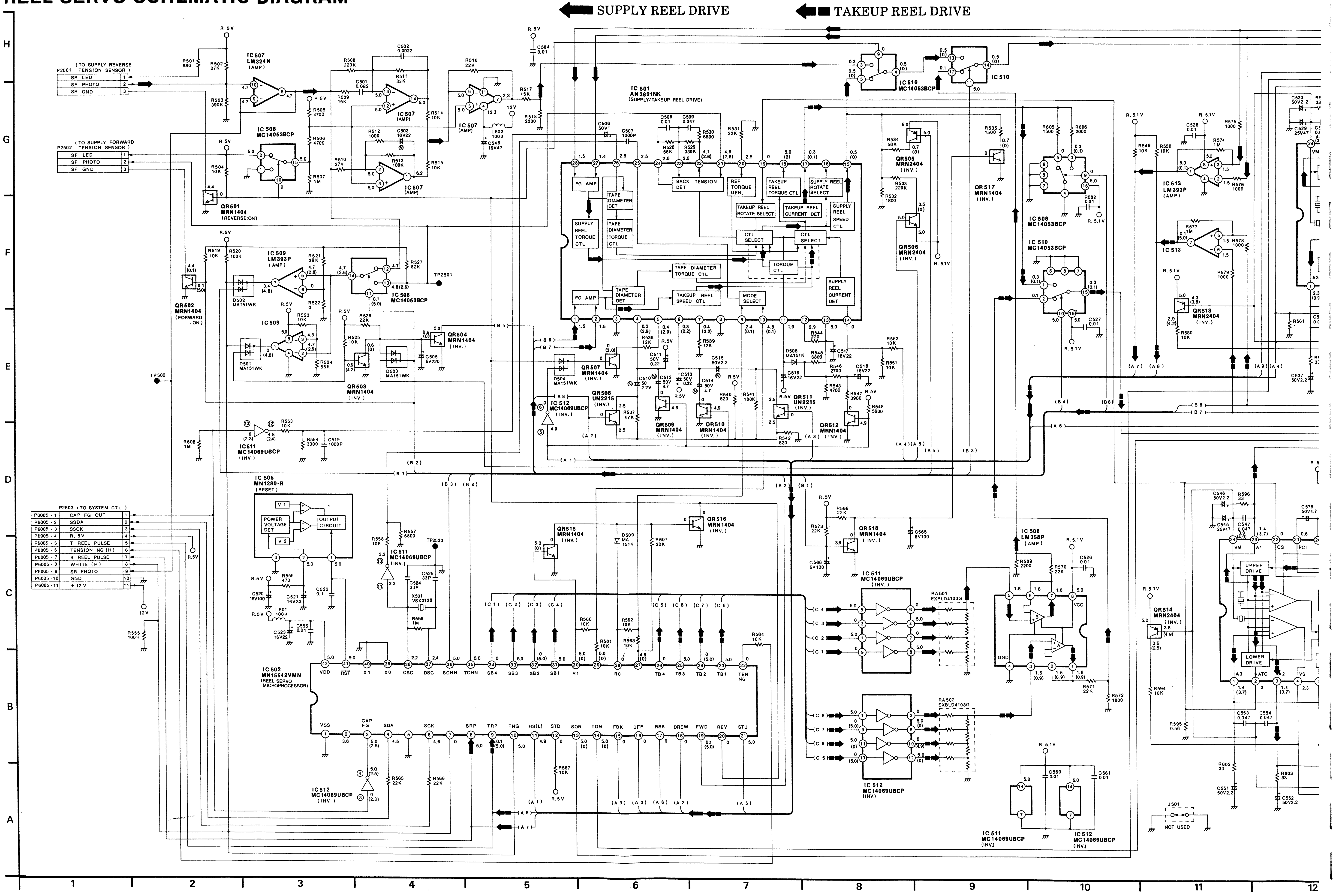
REEL SERVO C.B.A.	
Transistor	
Q2501	A-2 Ⓕ
Transistor & Resistor	
QR2501	C-1 Ⓕ
QR2502	A-1 Ⓕ
QR2503	B-1 Ⓕ
QR2504	B-1 Ⓕ
QR2505	B-1 Ⓕ
QR2506	B-1 Ⓕ
QR2507	C-3 Ⓕ
QR2508	C-3 Ⓕ
QR2509	B-3 Ⓕ
QR2510	B-3 Ⓕ
QR2511	B-3 Ⓕ
QR2512	B-3 Ⓕ
QR2513	A-3 Ⓕ
QR2514	C-5 Ⓕ
QR2515	B-4 Ⓕ
QR2516	B-4 Ⓕ
QR2517	B-1 Ⓕ
QR2518	B-1 Ⓕ
Integrated Circuit	
IC2501	C-2 Ⓕ
IC2502	C-5 Ⓕ
IC2503	A-2 Ⓕ
IC2504	A-4 Ⓕ
IC2505	B-5 Ⓕ
IC2506	C-4 Ⓕ
IC2507	C-1 Ⓕ
IC2508	A-1 Ⓕ
IC2509	B-2 Ⓕ
IC2510	C-4 Ⓕ
IC2511	C-5 Ⓕ
IC2512	C-5 Ⓕ
IC2513	A-4 Ⓕ
Test Point	
TP2501	C-1 Ⓕ
TP2502	C-2 Ⓕ
TP2503	B-5 Ⓕ
Connector	
P2501	B-1 Ⓕ
P2502	B-1 Ⓕ
P2503	B-5 Ⓕ
P2505	A-2 Ⓕ
P2506	A-4 Ⓕ
P2507	C-5 Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE


SUPPLY REEL DRIVE
TAKEUP REEL DRIVE
IC 501 AN3621NK (SUPPLY/TAKEUP REEL DRIVE)
FG AMP
TAPE DIAMETER DET
SUPPLY REEL TORQUE CTL
TAPE DIAMETER TORQUE CTL
BACK TENSION DET
REF TORQUE GEN.
TAKEUP REEL TORQUE CTL
SUPPLY REEL ROTATE SELECT
TAKEUP REEL ROTATE SELECT
TAKEUP REEL CURRENT DET
SUPPLY REEL SPEED CTL
CTL SELECT
TORQUE CTL
TAPE DIAMETER TORQUE CTL
TAKEUP REEL SPEED CTL
MODE SELECT
SUPPLY REEL CURRENT DET
IC 510 MC14053BCP
IC 508 MC14053BCP
IC 513 LM393P (AMP)
IC 503 AN3834K (SUPPLY REEL MOTOR DRIVE)
IC 504 AN3834K (TAKEUP REEL MOTOR DRIVE)
UPPER DRIVE
LOWER DRIVE
3 DIFFERENTIAL AMP
TORQUE RIPPLE CANCELLER
HALL ELEMENT POWER SOURSE & CONSTANT CURRENT SOURCE
P. SIGNAL COMPOSITION & TORQUE DETECTION SW
1st AMP
LOGIC
V - 1
Q501 2SD636 (REG.)
QR505 MRN2404 (INV.)
QR506 MRN2404 (INV.)
QR507 MRN1404 (INV.)
QR508 UN2215 (INV.)
QR509 MRN1404 (INV.)
QR510 MRN1404 (INV.)
QR511 UN2215 (INV.)
QR512 MRN1404 (INV.)
QR513 MRN2404 (INV.)
QR514 MRN2404 (INV.)
QR515 MRN1404 (INV.)
QR516 MRN1404 (INV.)
QR517 MRN1404 (INV.)
QR518 MRN2404 (INV.)
IC 512 MC14069UBCP (INV.)
IC 511 MC14069UBCP (INV.)
IC 506 LM358P (AMP)
RA501 EXBLD4103G
RA502 EXBLD4103G
D504 MA151WK
D506 MA151K
D507 MA151K
D508 MA151K
D509 MA151K
J501 NOT USED
P2505 (TO SUPPLY REEL MOTOR)
15 VFG+
14 VFG−
13 FG+
12 M1
11 FG−
10 H1−
9 H1+
8 M2
7 VH+
6 H2−
5 H2+
4 M3
3 H3−
2 VH−
1 H3+
P2506 (TO TAKEUP REEL MOTOR)
15 M2
14 H3−
13 H3+
12 M1
11 M3
10 H2−
9 VH−
8 H2+
7 VH+
6 H1−
5 H1+
4 VFG+
3 FG+
2 VFG−
1 FG−
P2507
1 S REEL POWER P6006-1
2 S POWER CTL P6006-2
3 T REEL POWER P6006-3
4 T POWER CTL P6006-4
5 REEL GND P6006-5
SB2 SB1 R1 R0 TB4 TB3 TB2 TB1 TEN NG
HS(L) STD SON TON FBK DFF RBK DREW FWD REV STU
5 6 7 8 9 10 11 12 13 14 15 16

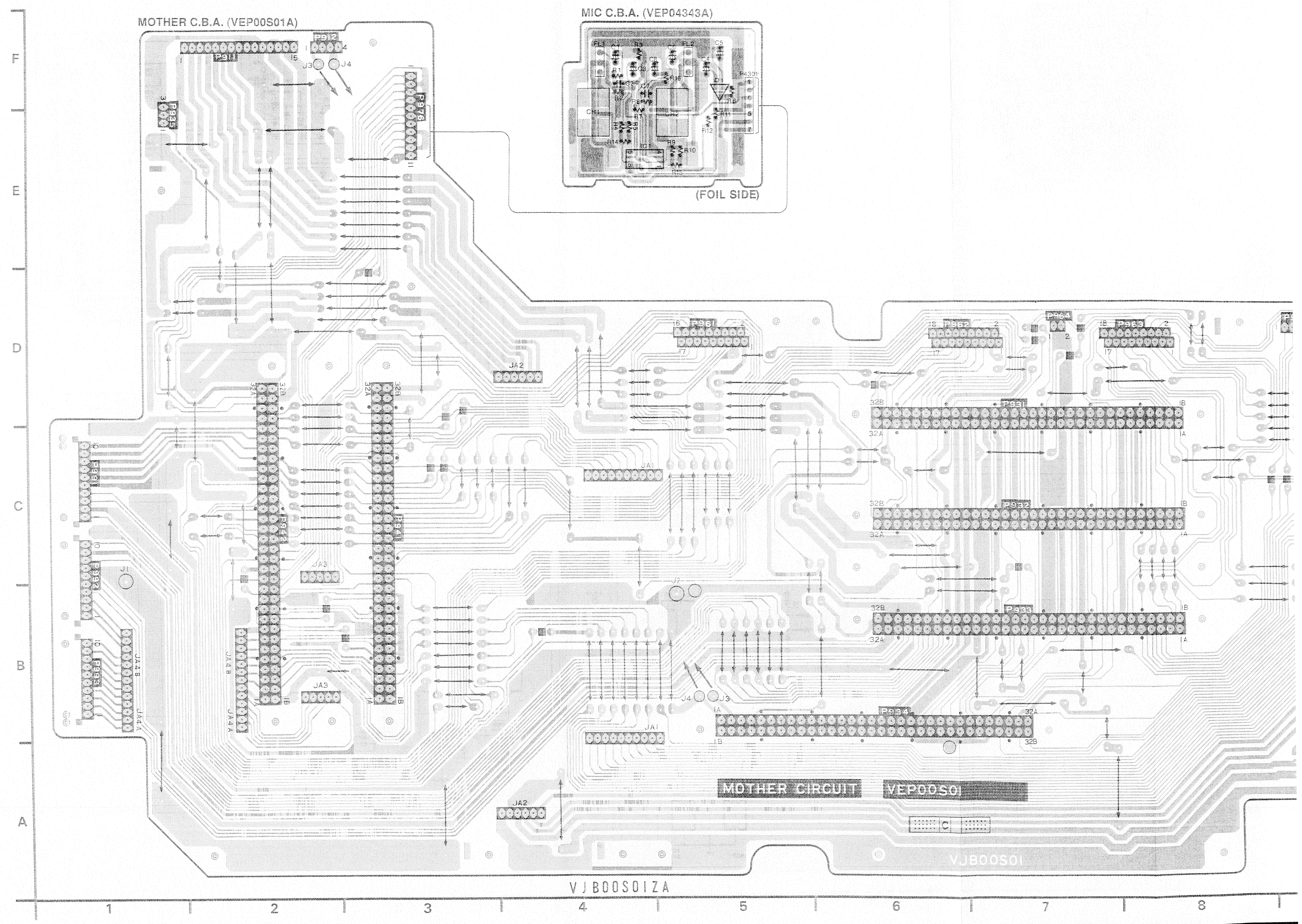
REF. NO. 2000 SERIES

REEL SERVO SCHEMATIC DIAGRAM

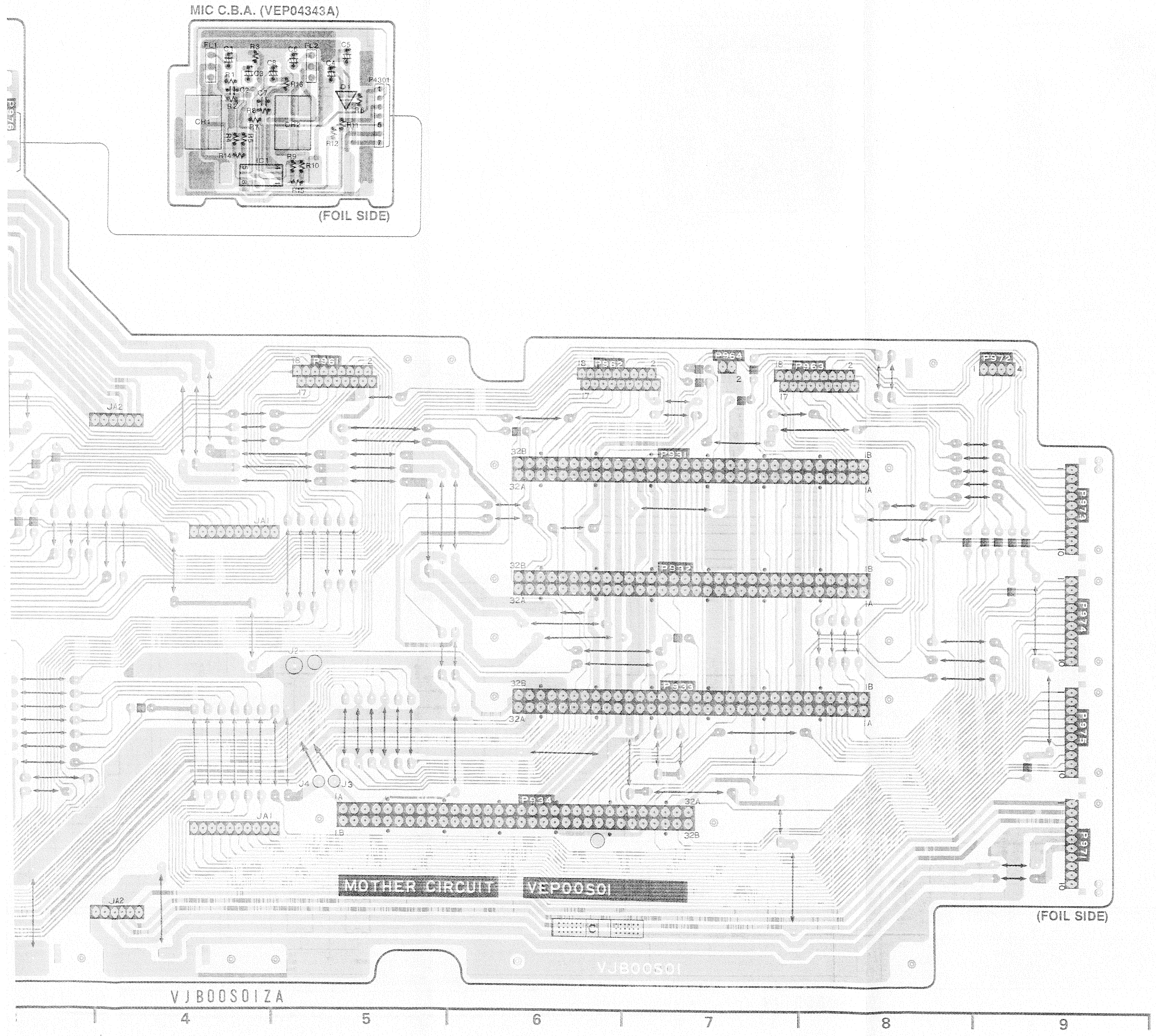


SUPPLY REEL DRIVE
TAKEUP REEL DRIVE
(TO SUPPLY REVERSE TENSION SENSOR)
P2501
SR LED
SR PHOTO
SR GND
(TO SUPPLY FORWARD TENSION SENSOR)
P2502
SF LED
SF PHOTO
SF GND
IC 507 LM324N (AMP)
IC 508 MC14053BCP
QR501 MRN1404 (REVERSE:ON)
QR502 MRN1404 (FORWARD:ON)
IC 509 LM393P (AMP)
D502 MA151WK
D501 MA151WK
D503 MA151WK
D504 MA151WK
QR503 MRN1404 (INV.)
QR504 MRN1404 (INV.)
TP2501
TP502
IC 511 MC14069UBCP (INV.)
IC 501 AN3621NK (SUPPLY/TAKEUP REEL DRIVE)
FG AMP
SUPPLY REEL TORQUE CTL
TAPE DIAMETER DET
BACK TENSION DET
REF TORQUE GEN.
TAKEUP REEL TORQUE CTL
SUPPLY REEL ROTATE SELECT
TAKEUP REEL ROTATE SELECT
TAKEUP REEL CURRENT DET
SUPPLY REEL SPEED CTL
CTL SELECT
TORQUE CTL
TAPE DIAMETER TORQUE CTL
TAKEUP REEL SPEED CTL
MODE SELECT
SUPPLY REEL CURRENT DET
IC 510 MC14053BCP
QR505 MRN2404 (INV.)
QR506 MRN2404 (INV.)
QR517 MRN1404 (INV.)
IC 513 LM393P (AMP)
QR513 MRN2404 (INV.)
QR507 MRN1404 (INV.)
QR508 UN2215 (INV.)
QR509 MRN1404 (INV.)
QR510 MRN1404 (INV.)
QR511 UN2215 (INV.)
QR512 MRN1404 (INV.)
IC 512 MC14069UBCP (INV.)
D506 MA151K
P2503 (TO SYSTEM CTL.)
P6005 - 1 CAP FG OUT
P6005 - 2 SSDA
P6005 - 3 SSCK
P6005 - 4 R. 5V
P6005 - 5 T REEL PULSE
P6005 - 6 TENSION NG (H)
P6005 - 7 S REEL PULSE
P6005 - 8 WHITE (H)
P6005 - 9 SR PHOTO
P6005 - 10 GND
P6005 - 11 + 12 V
IC 505 MN1280-R (RESET)
POWER VOLTAGE DET
OUTPUT CIRCUIT
TP2530
X501 VSX0128
QR515 MRN1404 (INV.)
QR516 MRN1404 (INV.)
D509 MA151K
QR518 MRN1404 (INV.)
IC 502 MN15542VMN (REEL SERVO MICROPROCESSOR)
VDD RST X1 X0 CSC DSC SCHN TCHN SB4 SB3 SB2 SB1 R1 R0 TB4 TB3 TB2 TB1 TEN NG
VSS CAP FG SDA SCK SRP TRP TNG HS(L) STD SON TON FBK DFF RBK DREW FWD REV STU
RA501 EXBLD4103G
RA502 EXBLD4103G
IC 506 LM358P (AMP)
VCC GND
QR514 MRN2404 (INV.)
UPPER DRIVE
LOWER DRIVE
VM A1 CS PCI A3 ATC A2 VS
J501 NOT USED
IC 511 MC14069UBCP (INV.)
IC 512 MC14069UBCP (INV.)
H G F E D C B A
1 2 3 4 5 6 7 8 9 10 11 12

MOTHER C.B.A. (VEP00S01A) AND MIC C.B.A. (VEP04343A)


MOTHER C.B.A. (VEP00S01A)
MIC C.B.A. (VEP04343A)
(FOIL SIDE)
P911
P912
P975
P935
J3
J4
FL1
FL2
CH1
CH2
IC1
P4301
P961
P962
P963
P964
P931
P932
P933
P934
P941
P942
P991
P992
P993
JA1
JA2
JA3
JA4A
JA4B
J1
J2
MOTHER CIRCUIT
VEP00S01
VJB00S01
VJB00S01ZA
F
E
D
C
B
A
1
2
3
4
5
6
7
8

B.A. (VEP04343A)

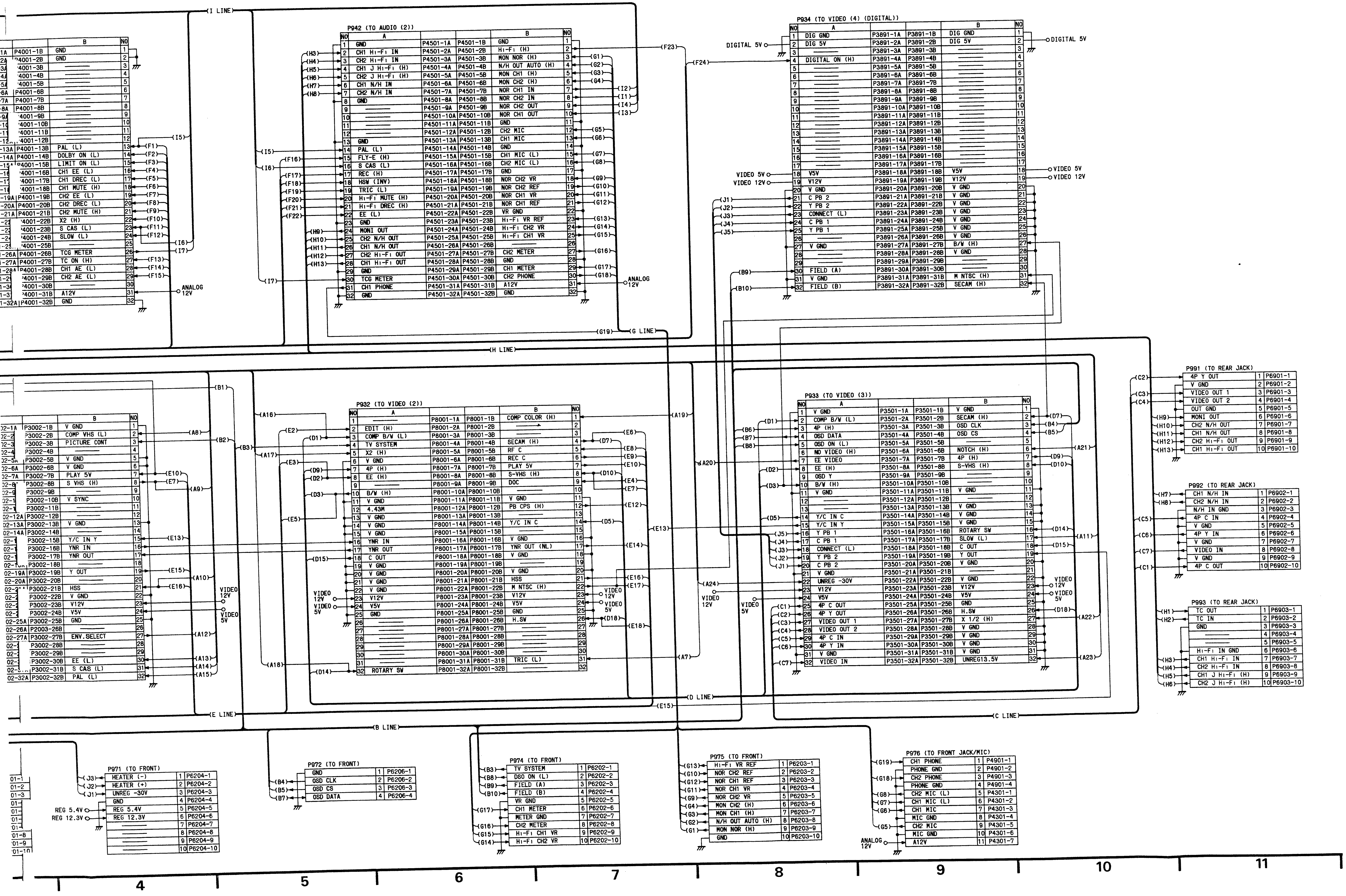

MIC C.B.A. (VEP04343A)
FL1
C1
R3
C6
FL2
C5
C3
C8
C4
R16
C2
C7
P4301
R2
R8
R6
CH1
CH2
R4
R7
R11
R12
R14
R9
R10
IC
(FOIL SIDE)
JA2
P961
P962
P964
P963
P972
17
18
2
32B
32A
1B
1A
P931
P932
P933
P934
P973
P974
P975
P971
JA1
J2
J4
J3
MOTHER CIRCUIT
VEP00S01
VJB00S01
(FOIL SIDE)
VJB00S01ZA
4
5
6
7
8
9

MOTHER C.B.A.	
Connector	
P911	F-2 Ⓕ
P912	F-2 Ⓕ
P931	D-7 Ⓕ
P932	C-7 Ⓕ
P933	B-7 Ⓕ
P934	B-6 Ⓕ
P935	E-1 Ⓕ
P941	C-3 Ⓕ
P942	C-2 Ⓕ
P961	D-5 Ⓕ
P962	D-6 Ⓕ
P963	D-8 Ⓕ
P964	D-7 Ⓕ
P971	A-9 Ⓕ
P972	D-9 Ⓕ
P973	C-9 Ⓕ
P974	C-9 Ⓕ
P975	B-9 Ⓕ
P976	F-3 Ⓕ
P991	C-1 Ⓕ
P992	C-1 Ⓕ
P993	B-1 Ⓕ

ADDRESS INFORMATION
Ⓒ... COMPONENT SIDE
Ⓕ... FOIL SIDE

MIC C.B.A.	
Transistor	
Q4301	F-5 Ⓕ
Integrated Circuit	
IC4301	E-4 Ⓕ
Connector	
P4301	F-5 Ⓕ

ADDRESS INFORMATION
Ⓒ... COMPONENT SIDE
Ⓕ... FOIL SIDE



		B	NO
1A	P4001-1B	GND	1
2A	P4001-2B	GND	2
3A	4001-3B	———	3
4A	4001-4B	———	4
5A	4001-5B	———	5
-6A	P4001-6B	———	6
-7A	P4001-7B	———	7
-8A	P4001-8B	———	8
-9A	4001-9B	———	9
-10	4001-10B	———	10
-11	4001-11B	———	11
-12	4001-12B	———	12
-13A	P4001-13B	PAL (L)	13
-14A	P4001-14B	DOLBY ON (L)	14
-15	P4001-15B	LIMIT ON (L)	15
-16	4001-16B	CH1 EE (L)	16
-17	4001-17B	CH1 DREC (L)	17
-18	4001-18B	CH1 MUTE (H)	18
-19A	P4001-19B	CH2 EE (L)	19
-20A	P4001-20B	CH2 DREC (L)	20
-21A	P4001-21B	CH2 MUTE (H)	21
-22	4001-22B	X2 (H)	22
-23	4001-23B	S CAS (L)	23
-24	4001-24B	SLOW (L)	24
-25	4001-25B	———	25
-26A	P4001-26B	TCG METER	26
-27A	P4001-27B	TC ON (H)	27
-28A	P4001-28B	CH1 AE (L)	28
-29	4001-29B	CH2 AE (L)	29
-30	4001-30B	———	30
-31	4001-31B	A12V	31
-32A	P4001-32B	GND	32

P942 (TO AUDIO (2))

NO	A			B	NO
1	GND	P4501-1A	P4501-1B	GND	1
2	CH1 Hi-Fi IN	P4501-2A	P4501-2B	Hi-Fi (H)	2
3	CH2 Hi-Fi IN	P4501-3A	P4501-3B	MON NOR (H)	3
4	CH1 J Hi-Fi (H)	P4501-4A	P4501-4B	N/H OUT AUTO (H)	4
5	CH2 J Hi-Fi (H)	P4501-5A	P4501-5B	MON CH1 (H)	5
6	CH1 N/H IN	P4501-6A	P4501-6B	MON CH2 (H)	6
7	CH2 N/H IN	P4501-7A	P4501-7B	NOR CH1 IN	7
8	GND	P4501-8A	P4501-8B	NOR CH2 IN	8
9	———	P4501-9A	P4501-9B	NOR CH2 OUT	9
10	———	P4501-10A	P4501-10B	NOR CH1 OUT	10
11	———	P4501-11A	P4501-11B	GND	11
12	———	P4501-12A	P4501-12B	CH2 MIC	12
13	GND	P4501-13A	P4501-13B	CH1 MIC	13
14	PAL (L)	P4501-14A	P4501-14B	GND	14
15	FLY-E (H)	P4501-15A	P4501-15B	CH1 MIC (L)	15
16	S CAS (L)	P4501-16A	P4501-16B	CH2 MIC (L)	16
17	REC (H)	P4501-17A	P4501-17B	GND	17
18	HSW (INV)	P4501-18A	P4501-18B	NOR CH2 VR	18
19	TRIC (L)	P4501-19A	P4501-19B	NOR CH2 REF	19
20	Hi-Fi MUTE (H)	P4501-20A	P4501-20B	NOR CH1 VR	20
21	Hi-Fi DREC (H)	P4501-21A	P4501-21B	NOR CH1 REF	21
22	EE (L)	P4501-22A	P4501-22B	VR GND	22
23	GND	P4501-23A	P4501-23B	Hi-Fi VR REF	23
24	MONI OUT	P4501-24A	P4501-24B	Hi-Fi CH2 VR	24
25	CH2 N/H OUT	P4501-25A	P4501-25B	Hi-Fi CH1 VR	25
26	CH1 N/H OUT	P4501-26A	P4501-26B	———	26
27	CH2 Hi-Fi OUT	P4501-27A	P4501-27B	CH2 METER	27
28	CH1 Hi-Fi OUT	P4501-28A	P4501-28B	GND	28
29	GND	P4501-29A	P4501-29B	CH1 METER	29
30	TCG METER	P4501-30A	P4501-30B	CH2 PHONE	30
31	CH1 PHONE	P4501-31A	P4501-31B	A12V	31
32	GND	P4501-32A	P4501-32B	GND	32

P934 (TO VIDEO (4) (DIGITAL))

NO	A			B	NO
1	DIG GND	P3891-1A	P3891-1B	DIG GND	1
2	DIG 5V	P3891-2A	P3891-2B	DIG 5V	2
3	———	P3891-3A	P3891-3B	———	3
4	DIGITAL ON (H)	P3891-4A	P3891-4B	———	4
5	———	P3891-5A	P3891-5B	———	5
6	———	P3891-6A	P3891-6B	———	6
7	———	P3891-7A	P3891-7B	———	7
8	———	P3891-8A	P3891-8B	———	8
9	———	P3891-9A	P3891-9B	———	9
10	———	P3891-10A	P3891-10B	———	10
11	———	P3891-11A	P3891-11B	———	11
12	———	P3891-12A	P3891-12B	———	12
13	———	P3891-13A	P3891-13B	———	13
14	———	P3891-14A	P3891-14B	———	14
15	———	P3891-15A	P3891-15B	———	15
16	———	P3891-16A	P3891-16B	———	16
17	———	P3891-17A	P3891-17B	———	17
18	V5V	P3891-18A	P3891-18B	V5V	18
19	V12V	P3891-19A	P3891-19B	V12V	19
20	V GND	P3891-20A	P3891-20B	V GND	20
21	C PB 2	P3891-21A	P3891-21B	V GND	21
22	Y PB 2	P3891-22A	P3891-22B	V GND	22
23	CONNECT (L)	P3891-23A	P3891-23B	V GND	23
24	C PB 1	P3891-24A	P3891-24B	V GND	24
25	Y PB 1	P3891-25A	P3891-25B	V GND	25
26	———	P3891-26A	P3891-26B	V GND	26
27	V GND	P3891-27A	P3891-27B	B/W (H)	27
28	———	P3891-28A	P3891-28B	V GND	28
29	———	P3891-29A	P3891-29B	———	29
30	FIELD (A)	P3891-30A	P3891-30B	———	30
31	V GND	P3891-31A	P3891-31B	M NTSC (H)	31
32	FIELD (B)	P3891-32A	P3891-32B	SECAM (H)	32

		B	NO
02-1A	P3002-1B	V GND	1
02-2	P3002-2B	COMP VHS (L)	2
02-3	P3002-3B	PICTURE CONT	3
02-4	P3002-4B	———	4
02-5A	P3002-5B	V GND	5
02-6A	P3002-6B	V GND	6
02-7A	P3002-7B	PLAY 5V	7
02-8	P3002-8B	S VHS (H)	8
02-9	P3002-9B	———	9
02-1	P3002-10B	V SYNC	10
02-1	P3002-11B	———	11
02-12A	P3002-12B	———	12
02-13A	P3002-13B	V GND	13
02-14A	P3002-14B	———	14
02-1	P3002-15B	Y/C IN Y	15
02-1	P3002-16B	YNR IN	16
02-1	P3002-17B	YNR OUT	17
02-1	P3002-18B	———	18
02-19A	P3002-19B	Y OUT	19
02-20A	P3002-20B	———	20
02-2	P3002-21B	HSS	21
02-2	P3002-22B	V GND	22
02-2	P3002-23B	V12V	23
02-2	P3002-24B	V5V	24
02-25A	P3002-25B	GND	25
02-26A	P2003-26B	———	26
02-27A	P3002-27B	ENV.SELECT	27
02-2	P3002-28B	———	28
02-2	P3002-29B	———	29
02-3	P3002-30B	EE (L)	30
02-3	P3002-31B	S CAS (L)	31
02-32A	P3002-32B	PAL (L)	32

P932 (TO VIDEO (2))

NO	A			B	NO
1	———	P8001-1A	P8001-1B	COMP COLOR (H)	1
2	EDIT (H)	P8001-2A	P8001-2B	———	2
3	COMP B/W (L)	P8001-3A	P8001-3B	———	3
4	TV SYSTEM	P8001-4A	P8001-4B	SECAM (H)	4
5	X2 (H)	P8001-5A	P8001-5B	RF C	5
6	V GND	P8001-6A	P8001-6B	REC C	6
7	4P (H)	P8001-7A	P8001-7B	PLAY 5V	7
8	EE (H)	P8001-8A	P8001-8B	S-VHS (H)	8
9	———	P8001-9A	P8001-9B	DOC	9
10	B/W (H)	P8001-10A	P8001-10B	———	10
11	V GND	P8001-11A	P8001-11B	V GND	11
12	4.43M	P8001-12A	P8001-12B	PB CPS (H)	12
13	V GND	P8001-13A	P8001-13B	———	13
14	V GND	P8001-14A	P8001-14B	Y/C IN C	14
15	V GND	P8001-15A	P8001-15B	———	15
16	YNR IN	P8001-16A	P8001-16B	V GND	16
17	YNR OUT	P8001-17A	P8001-17B	YNR OUT (NL)	17
18	C OUT	P8001-18A	P8001-18B	V GND	18
19	V GND	P8001-19A	P8001-19B	———	19
20	V GND	P8001-20A	P8001-20B	V GND	20
21	V GND	P8001-21A	P8001-21B	HSS	21
22	V GND	P8001-22A	P8001-22B	M NTSC (H)	22
23	V12V	P8001-23A	P8001-23B	V12V	23
24	V5V	P8001-24A	P8001-24B	V5V	24
25	GND	P8001-25A	P8001-25B	GND	25
26	———	P8001-26A	P8001-26B	H.SW	26
27	———	P8001-27A	P8001-27B	———	27
28	———	P8001-28A	P8001-28B	———	28
29	———	P8001-29A	P8001-29B	———	29
30	———	P8001-30A	P8001-30B	———	30
31	———	P8001-31A	P8001-31B	TRIC (L)	31
32	ROTARY SW	P8001-32A	P8001-32B	———	32

P933 (TO VIDEO (3))

NO	A			B	NO
1	V GND	P3501-1A	P3501-1B	V GND	1
2	COMP B/W (L)	P3501-2A	P3501-2B	SECAM (H)	2
3	4P (H)	P3501-3A	P3501-3B	OSD CLK	3
4	OSD DATA	P3501-4A	P3501-4B	OSD CS	4
5	OSD ON (L)	P3501-5A	P3501-5B	———	5
6	NO VIDEO (H)	P3501-6A	P3501-6B	NOTCH (H)	6
7	EE VIDEO	P3501-7A	P3501-7B	4P (H)	7
8	EE (H)	P3501-8A	P3501-8B	S-VHS (H)	8
9	OSD Y	P3501-9A	P3501-9B	———	9
10	B/W (H)	P3501-10A	P3501-10B	———	10
11	V GND	P3501-11A	P3501-11B	V GND	11
12	———	P3501-12A	P3501-12B	———	12
13	———	P3501-13A	P3501-13B	V GND	13
14	Y/C IN C	P3501-14A	P3501-14B	V GND	14
15	Y/C IN Y	P3501-15A	P3501-15B	V GND	15
16	Y PB 1	P3501-16A	P3501-16B	ROTARY SW	16
17	C PB 1	P3501-17A	P3501-17B	SLOW (L)	17
18	CONNECT (L)	P3501-18A	P3501-18B	C OUT	18
19	Y PB 2	P3501-19A	P3501-19B	Y OUT	19
20	C PB 2	P3501-20A	P3501-20B	V GND	20
21	V GND	P3501-21A	P3501-21B	———	21
22	UNREG -30V	P3501-22A	P3501-22B	V GND	22
23	V12V	P3501-23A	P3501-23B	V12V	23
24	V5V	P3501-24A	P3501-24B	V5V	24
25	4P C OUT	P3501-25A	P3501-25B	GND	25
26	4P Y OUT	P3501-26A	P3501-26B	H.SW	26
27	VIDEO OUT 1	P3501-27A	P3501-27B	X 1/2 (H)	27
28	VIDEO OUT 2	P3501-28A	P3501-28B	V GND	28
29	4P C IN	P3501-29A	P3501-29B	V GND	29
30	4P Y IN	P3501-30A	P3501-30B	V GND	30
31	V GND	P3501-31A	P3501-31B	V GND	31
32	VIDEO IN	P3501-32A	P3501-32B	UNREG13.5V	32

P991 (TO REAR JACK)

4P Y OUT	1	P6901-1
V GND	2	P6901-2
VIDEO OUT 1	3	P6901-3
VIDEO OUT 2	4	P6901-4
OUT GND	5	P6901-5
MONI OUT	6	P6901-6
CH2 N/H OUT	7	P6901-7
CH1 N/H OUT	8	P6901-8
CH2 Hi-Fi OUT	9	P6901-9
CH1 Hi-Fi OUT	10	P6901-10

P992 (TO REAR JACK)

CH1 N/H IN	1	P6902-1
CH2 N/H IN	2	P6902-2
N/H IN GND	3	P6902-3
4P C IN	4	P6902-4
V GND	5	P6902-5
4P Y IN	6	P6902-6
V GND	7	P6902-7
VIDEO IN	8	P6902-8
V GND	9	P6902-9
4P C OUT	10	P6902-10

P993 (TO REAR JACK)

TC OUT	1	P6903-1
TC IN	2	P6903-2
GND	3	P6903-3
———	4	P6903-4
———	5	P6903-5
Hi-Fi IN GND	6	P6903-6
CH1 Hi-Fi IN	7	P6903-7
CH2 Hi-Fi IN	8	P6903-8
CH1 J Hi-Fi (H)	9	P6903-9
CH2 J Hi-Fi (H)	10	P6903-10

P971 (TO FRONT)

HEATER (-)	1	P6204-1
HEATER (+)	2	P6204-2
UNREG -30V	3	P6204-3
GND	4	P6204-4
REG 5.4V	5	P6204-5
REG 12.3V	6	P6204-6
———	7	P6204-7
———	8	P6204-8
———	9	P6204-9
———	10	P6204-10

P972 (TO FRONT)

GND	1	P6206-1
OSD CLK	2	P6206-2
OSD CS	3	P6206-3
OSD DATA	4	P6206-4

P974 (TO FRONT)

TV SYSTEM	1	P6202-1
DSO ON (L)	2	P6202-2
FIELD (A)	3	P6202-3
FIELD (B)	4	P6202-4
VR GND	5	P6202-5
CH1 METER	6	P6202-6
METER GND	7	P6202-7
CH2 METER	8	P6202-8
Hi-Fi CH1 VR	9	P6202-9
Hi-Fi CH2 VR	10	P6202-10

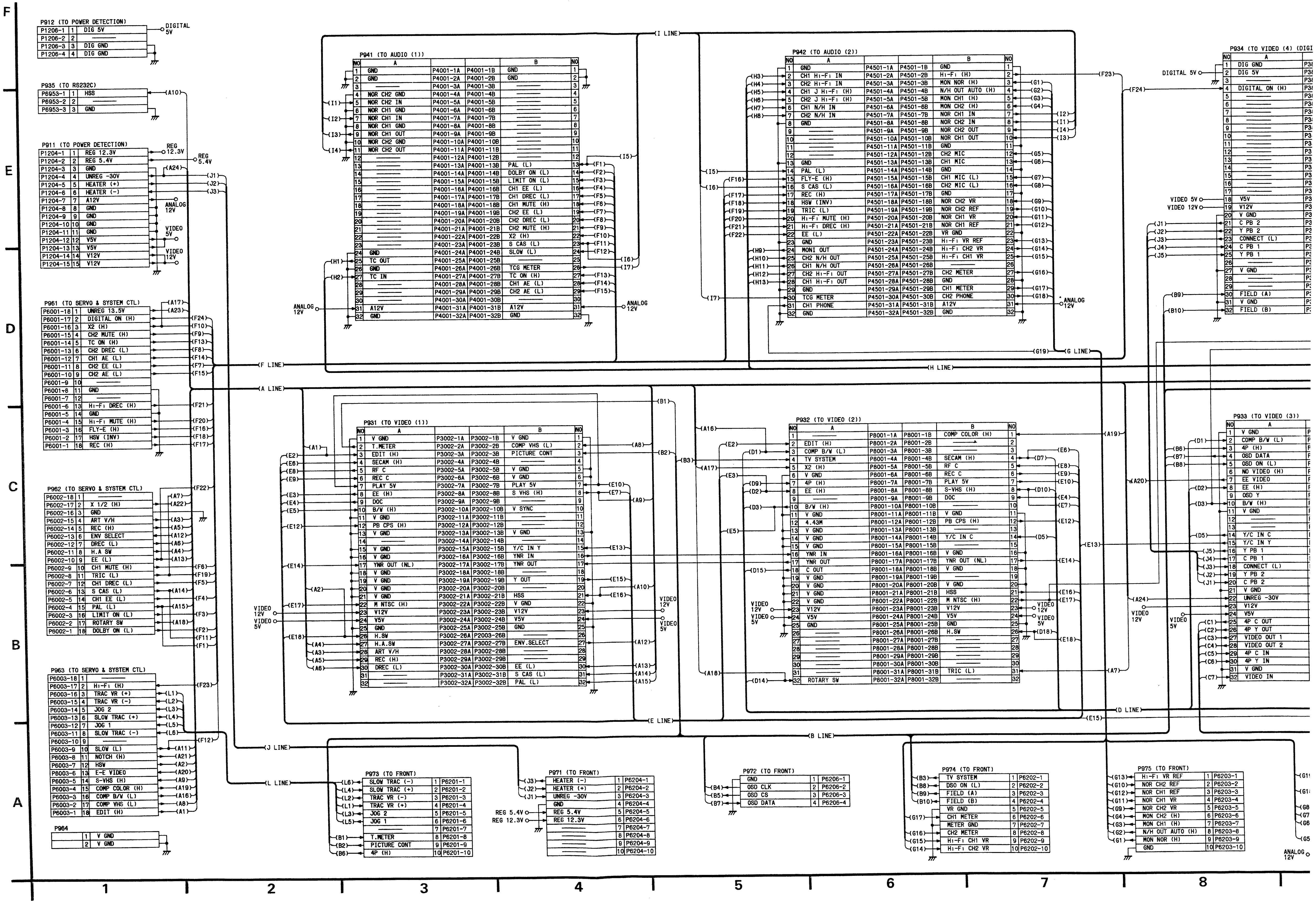
P975 (TO FRONT)

Hi-Fi VR REF	1	P6203-1
NOR CH2 REF	2	P6203-2
NOR CH1 REF	3	P6203-3
NOR CH1 VR	4	P6203-4
NOR CH2 VR	5	P6203-5
MON CH2 (H)	6	P6203-6
MON CH1 (H)	7	P6203-7
N/H OUT AUTO (H)	8	P6203-8
MON NOR (H)	9	P6203-9
GND	10	P6203-10

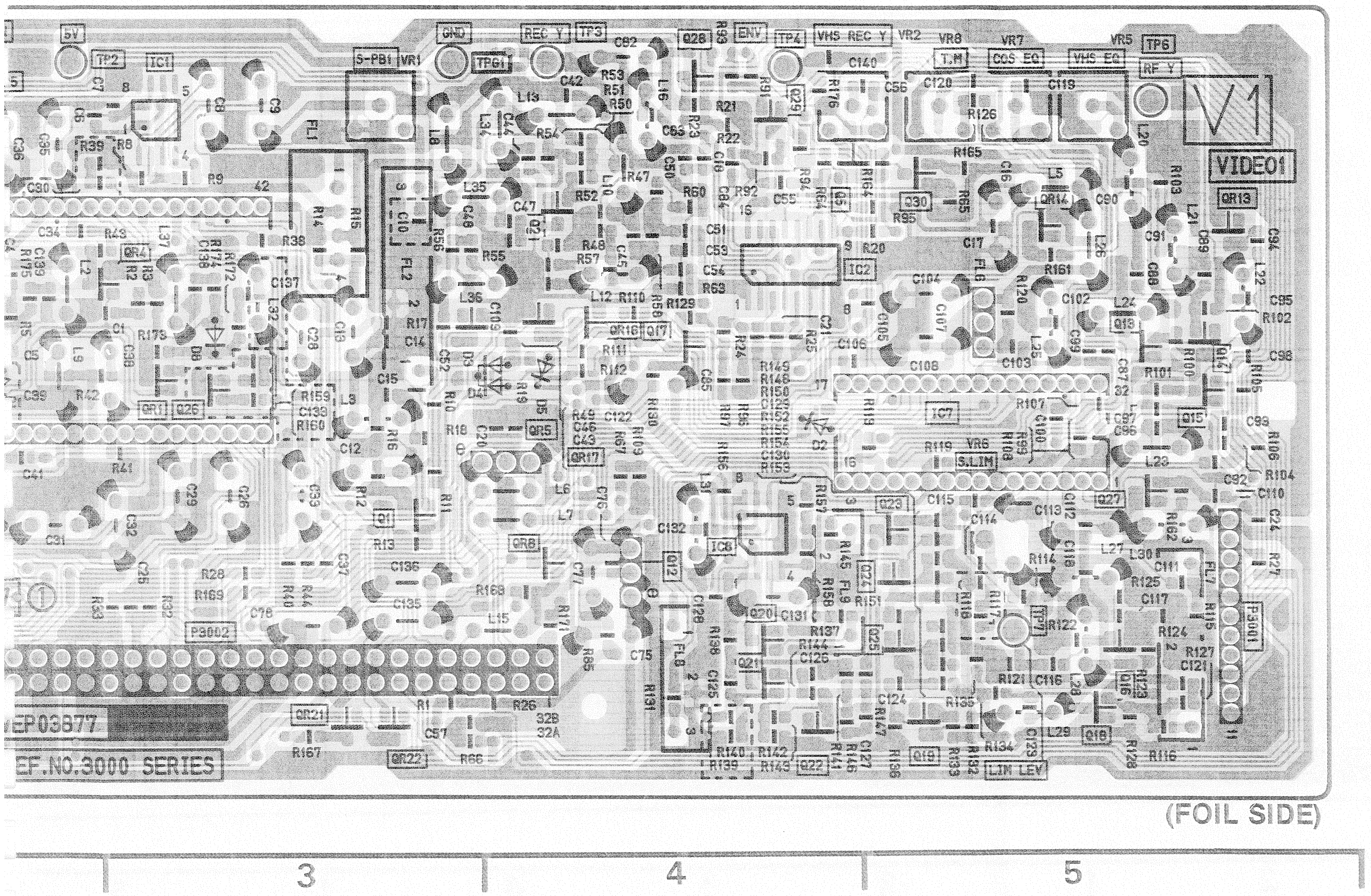
P976 (TO FRONT JACK/MIC)

CH1 PHONE	1	P4901-1
PHONE GND	2	P4901-2
CH2 PHONE	3	P4901-3
PHONE GND	4	P4901-4
CH2 MIC (L)	5	P4301-1
CH1 MIC (L)	6	P4301-2
CH1 MIC	7	P4301-3
MIC GND	8	P4301-4
CH2 MIC	9	P4301-5
MIC GND	10	P4301-6
A12V	11	P4301-7

MOTHER SCHEMATIC DIAGRAM



F
E
D
C
B
A
1
2
3
4
5
6
7
8
P912 (TO POWER DETECTION)
DIGITAL 5V
P935 (TO RS232C)
P911 (TO POWER DETECTION)
REG 12.3V
REG 5.4V
ANALOG 12V
VIDEO 5V
VIDEO 12V
P961 (TO SERVO & SYSTEM CTL)
P962 (TO SERVO & SYSTEM CTL)
P963 (TO SERVO & SYSTEM CTL)
P964
P941 (TO AUDIO (1))
P942 (TO AUDIO (2))
P934 (TO VIDEO (4) (DIGI
P931 (TO VIDEO (1))
P932 (TO VIDEO (2))
P933 (TO VIDEO (3))
P973 (TO FRONT)
P971 (TO FRONT)
P972 (TO FRONT)
P974 (TO FRONT)
P975 (TO FRONT)
I LINE
F LINE
A LINE
G LINE
H LINE
D LINE
E LINE
B LINE
J LINE
L LINE


5V
TP2
IC1
GND
REC Y
TP3
TPG1
5-PB1
VR1
Q28
ENV
TP4
VHS REC Y
VR2
VR8
T.M
VR7
COS EQ
VHS EQ
VR5
TP6
RF Y
V1
VIDEO01
QR13
IC2
IC7
VR6
S.LIM
IC6
TP7
P3001
P3002
LIN LEV
EP03877
EF.NO.3000 SERIES
3
4
5

(FOIL SIDE)

VIDEO (1) C.B.A.

Transistor

Q3001	A-3
Q3002	B-4
Q3005	B-4
Q3006	B-2
Q3007	B-2
Q3008	B-2
Q3009	B-2
Q3010	B-2
Q3011	B-1
Q3012	A-4
Q3013	B-5
Q3014	B-5
Q3015	B-5
Q3016	A-5
Q3017	B-4
Q3018	A-5
Q3019	A-5
Q3020	A-4
Q3021	A-4
Q3022	A-4
Q3023	A-5
Q3024	A-4
Q3025	A-5
Q3026	B-3
Q3027	A-5
Q3028	B-4
Q3029	B-4
Q3030	B-5

Transistor & Resistor

QR3001	B-3
QR3002	B-2
QR3003	B-2
QR3004	B-3
QR3005	B-4
QR3006	B-2
QR3007	B-1
QR3008	A-4
QR3010	B-1
QR3011	B-1
QR3012	B-1
QR3013	B-5
QR3014	B-5
QR3015	A-2
QR3016	B-4
QR3017	B-4
QR3018	A-1
QR3019	A-2
QR3020	A-2
QR3021	A-3
QR3022	A-3

Integrated Circuit

IC3001	B-3
IC3002	B-4
IC3003	A-1
IC3004	B-2
IC3005	A-1
IC3006	B-2
IC3007	B-5
IC3008	A-4

Test Point

TP3001	A-2
TP3002	B-3
TP3003	B-4
TP3004	B-4
TP3005	B-2
TP3006	B-5
TP3007	A-5
TPG3001	B-4

Adjustment

VR3001	B-3
VR3002	B-5
VR3003	B-2
VR3004	B-1
VR3005	B-5
VR3006	A-5
VR3007	B-5
VR3008	B-5

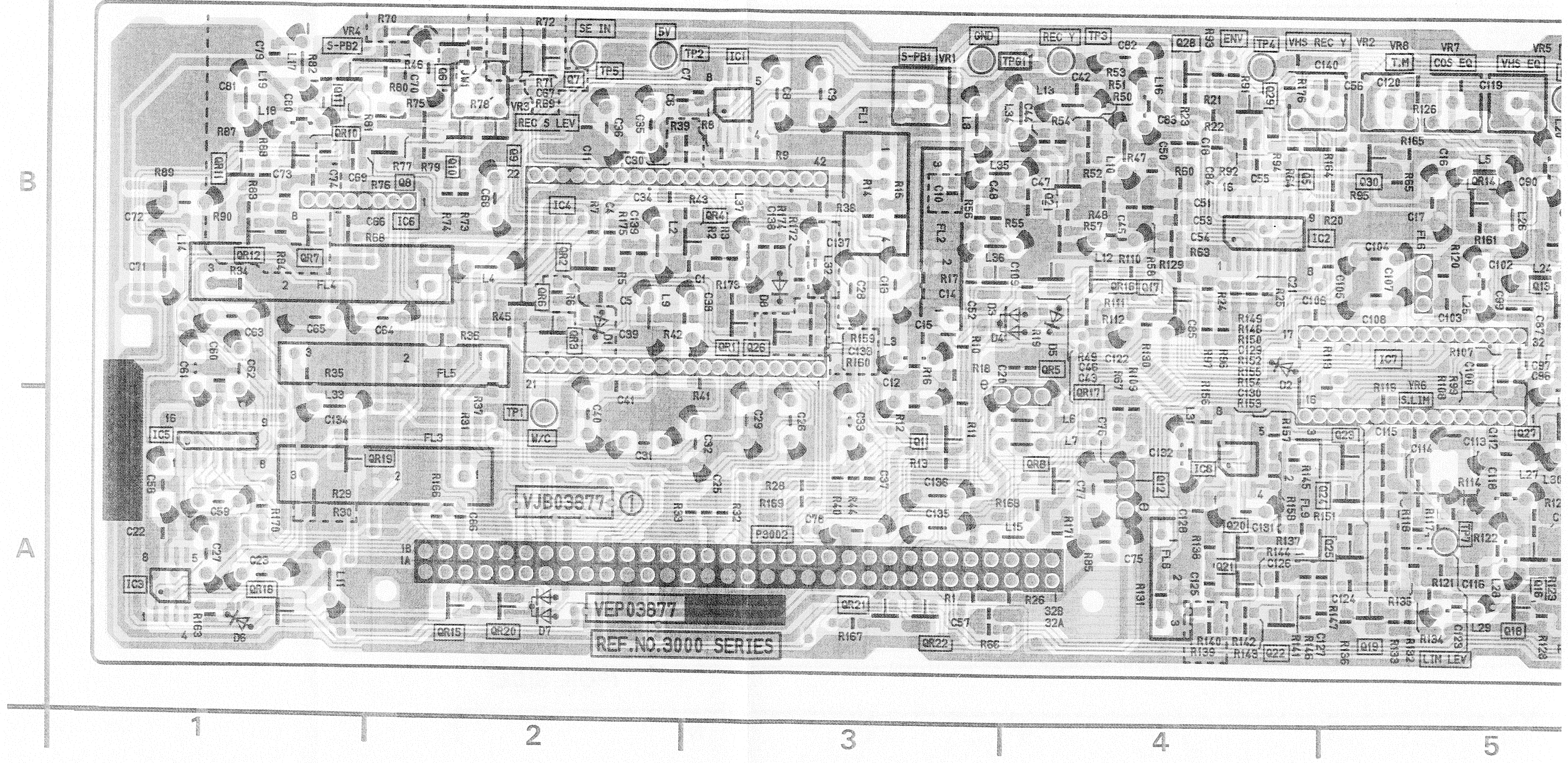
Connector

P3001	A-5
P3002	A-3

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

VIDEO (1) C.B.A. (VEP03877A)

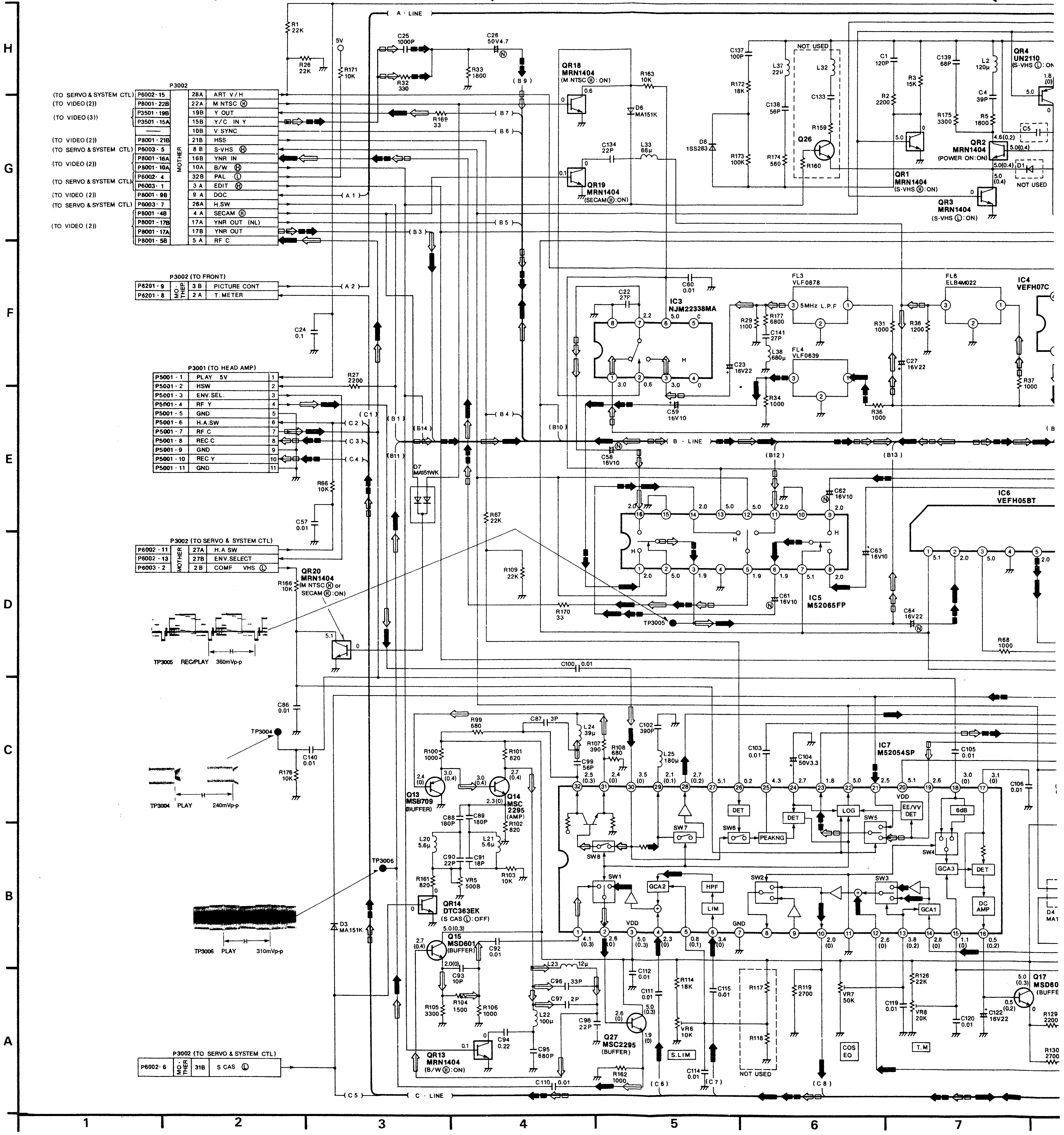
VIDEO (1) C.B.A. (VEP03877A)


A
B
1
2
3
4
5
VEP03877
REF.NO.3000 SERIES
VJB03877
P3002
SE IN
5V
GND
REC Y
ENV
VHS REC Y
REC S LEV
T.M
COS EQ
VHS EQ
S.LIM
LIN LEV
W/C
5-PB1
5-PB2
IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC8
FL1
FL2
FL3
FL4
FL5
FL6
FL9
TP1
TP2
TP3
TP4
TP5
TP6
TP7

VIDEO (1) SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE (S-VHS)

VIDEO MAIN SIGNAL PATH IN REC MODE (VHS)



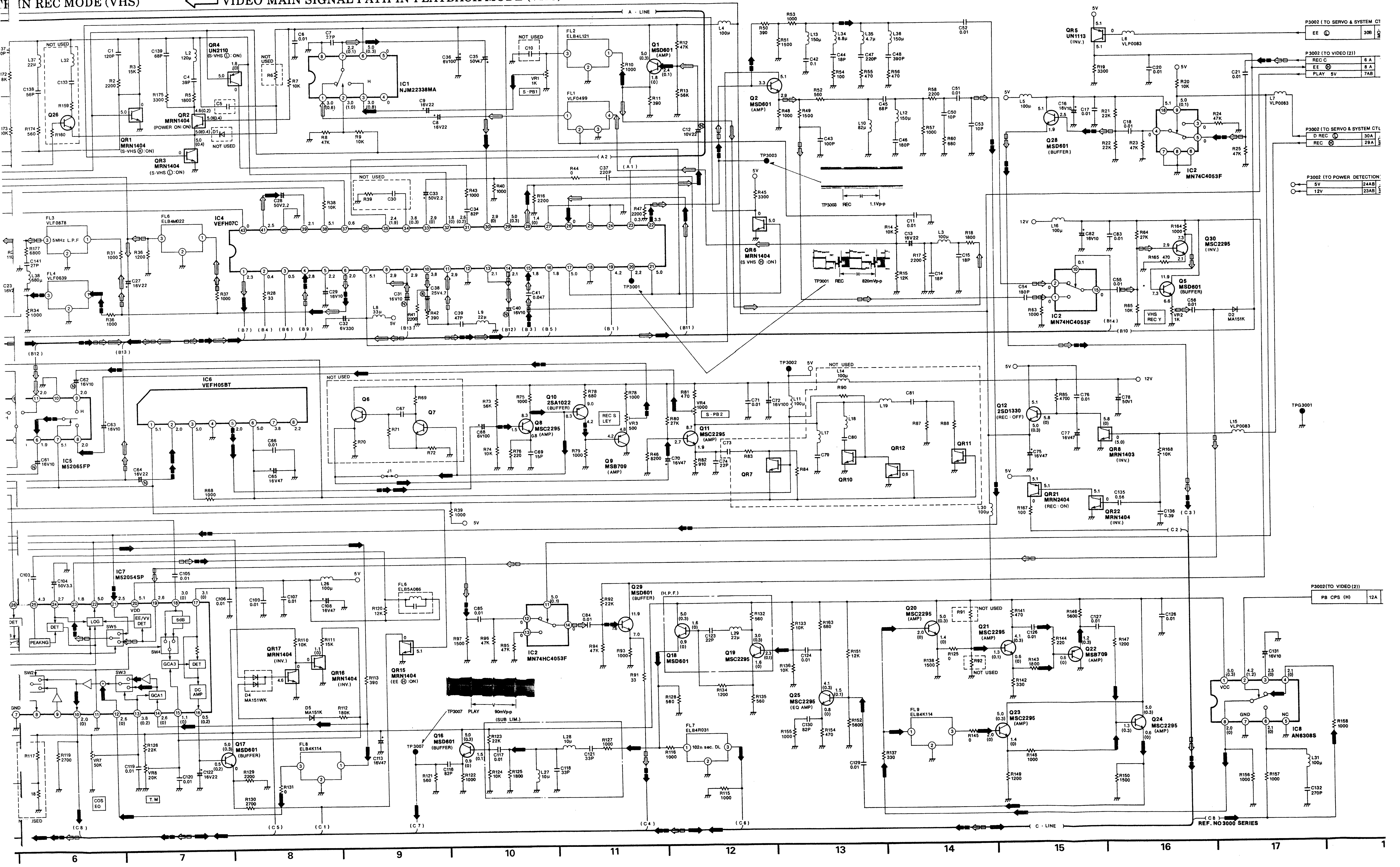
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
P3002
(TO SERVO & SYSTEM CTL)
(TO VIDEO (2))
(TO VIDEO (3))
MOTHER
28A ART V/H
22A M NTSC
19B Y OUT
15B Y/C IN Y
10B V SYNC
21B HSS
8B S-VHS
16B YNR IN
10A B/W
32B PAL
3A EDIT
9A DOC
26A H.SW
4A SECAM
17A YNR OUT (NL)
17B YNR OUT
5A RF C
P3002 (TO FRONT)
3B PICTURE CONT
2A T.METER
P3001 (TO HEAD AMP)
P5001-1 PLAY 5V
P5001-2 HSW
P5001-3 ENV.SEL.
P5001-4 RF Y
P5001-5 GND
P5001-6 H.A.SW
P5001-7 RF C
P5001-8 REC C
P5001-9 GND
P5001-10 REC Y
P5001-11 GND
P3002 (TO SERVO & SYSTEM CTL)
27A H.A.SW
27B ENV.SELECT
2B COMF VHS
31B S CAS
A - LINE
B - LINE
C - LINE
QR18 MRN1404 (M NTSC: ON)
QR19 MRN1404 (SECAM: ON)
QR20 MRN1404 (M NTSC or SECAM: ON)
IC3 NJM22338MA
FL3 VLF0878
5MHz L.P.F
FL4 VLF0639
FL6 ELB4M022
IC4 VEFH07C
IC5 M52065FP
IC6 VEFH05BT
IC7 M52054SP
Q26
QR1 MRN1404 (S-VHS: ON)
QR2 MRN1404 (POWER ON: ON)
QR3 MRN1404 (S-VHS: ON)
QR4 UN2110
NOT USED
Q13 MSB709 (BUFFER)
Q14 MSC2295 (AMP)
Q15 MSD601 (BUFFER)
QR14 DTC363EK (S CAS: OFF)
QR13 MRN1404 (B/W: ON)
Q27 MSC2295 (BUFFER)
Q17 MSD60
D3 MA151K
D6 MA151K
D7 MA151WK
D8 1SS283
TP3004
TP3005
TP3006
TP3005 REC/PLAY 360mVp-p
TP3004 PLAY 240mVp-p
TP3006 PLAY 310mVp-p
DET
LOG
PEAKNG
EE/VV DET
6dB
GCA1
GCA2
GCA3
HPF
LIM
DC AMP
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
S.LIM
COS EO
T.M
VDD
GND

H IN REC MODE (S-VHS)

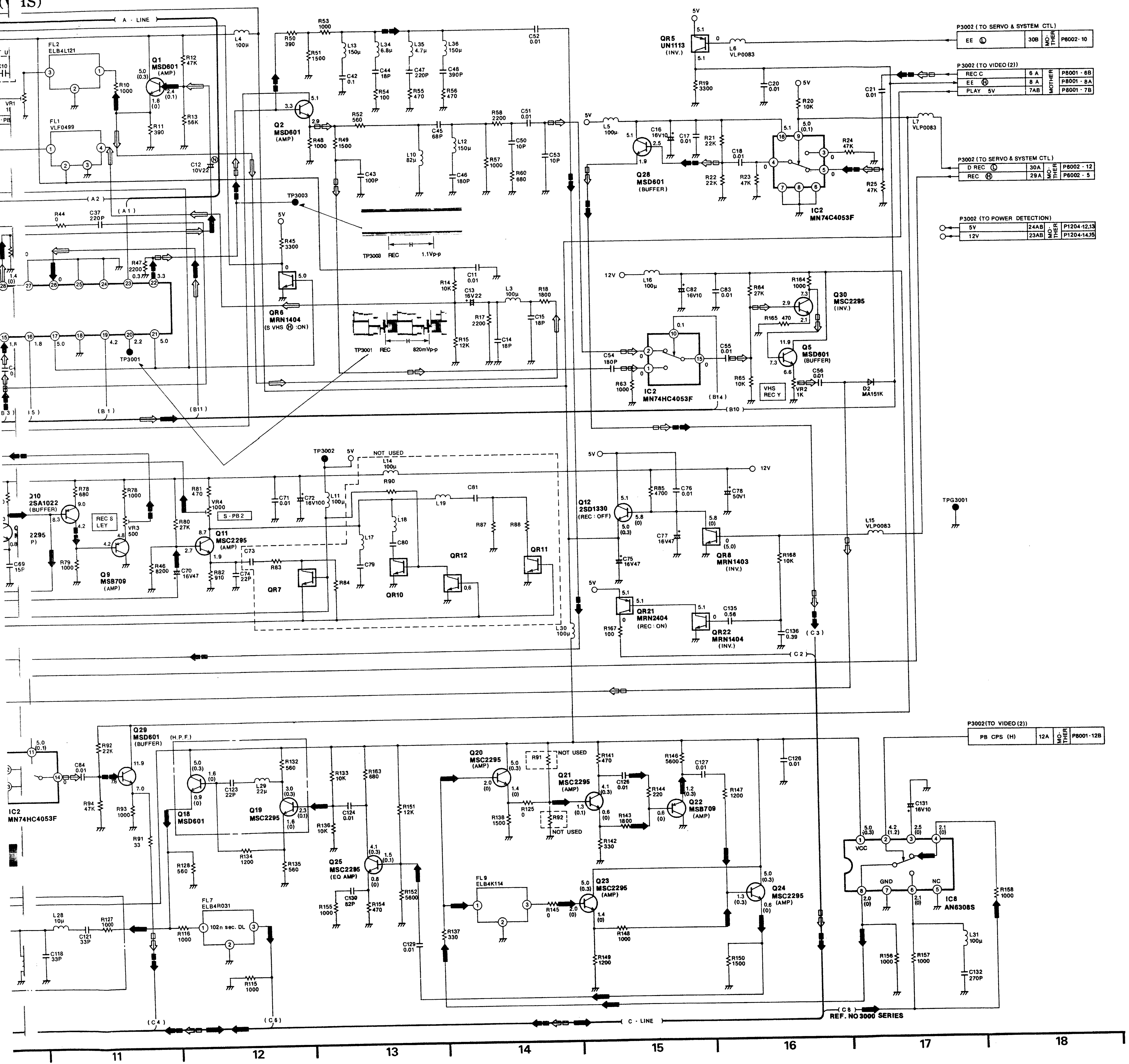
H IN REC MODE (VHS)

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)

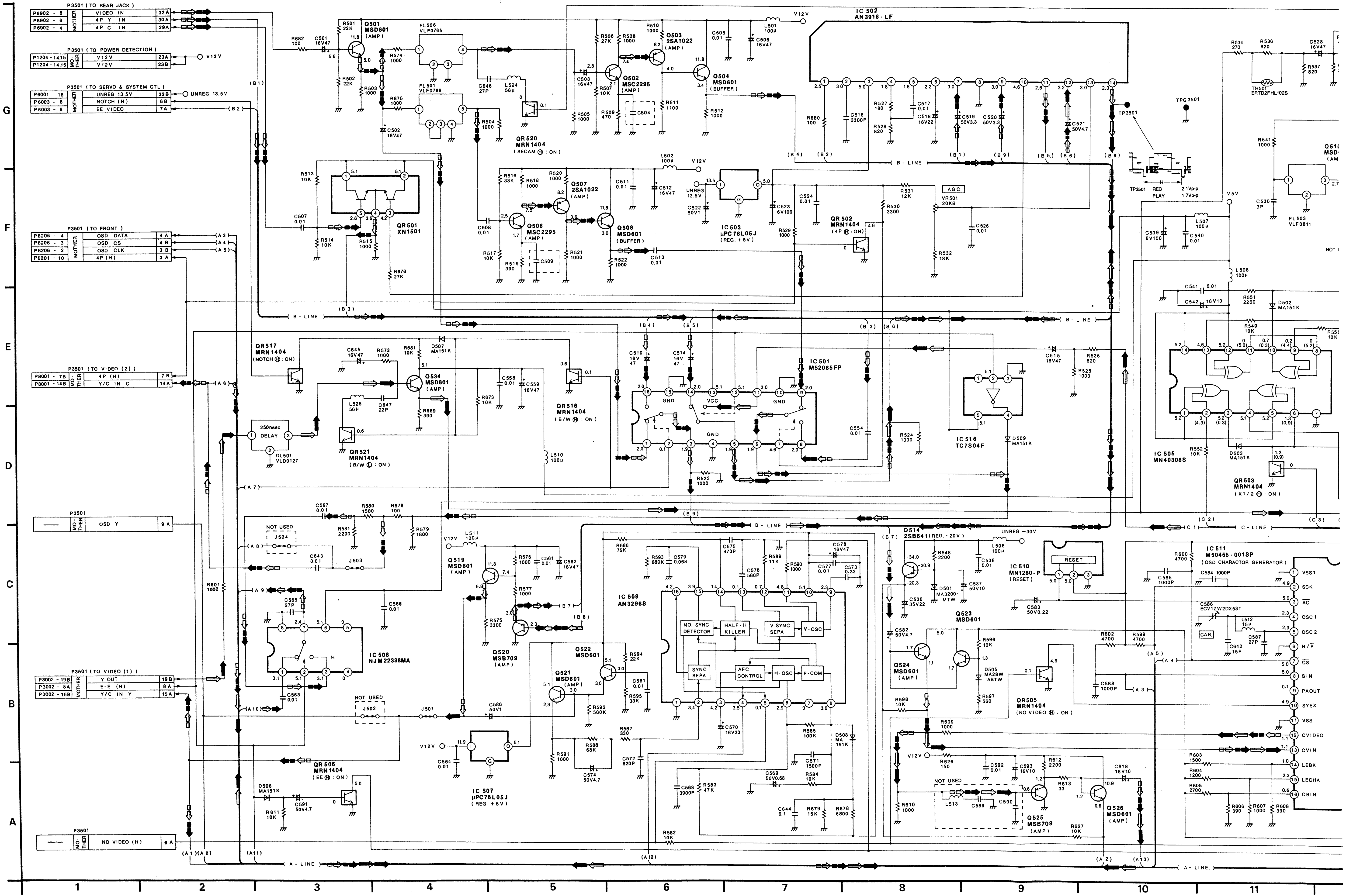
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)

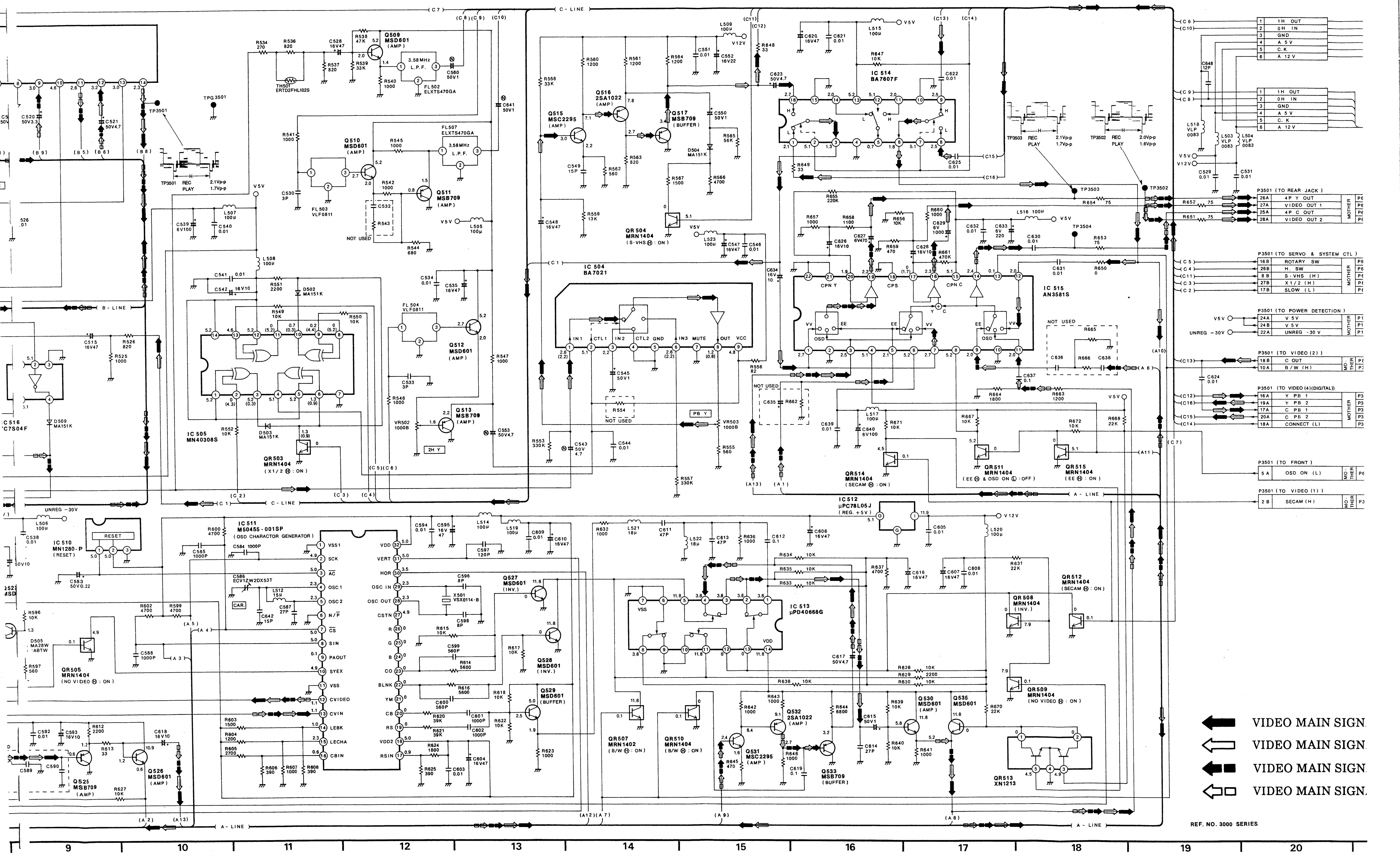

A - LINE
C - LINE
IC1 NJM22338MA
IC2 MN74C4053F
IC2 MN74HC4053F
IC4 VEFH07C
IC5 M52065FP
IC6 VEFH05BT
IC7 M52054SP
IC8 AN6308S
Q1 MSD601 (AMP)
Q2 MSD601 (AMP)
Q5 MSD601 (BUFFER)
Q8 MSC2295 (AMP)
Q9 MSB709 (AMP)
Q10 2SA1022 (BUFFER)
Q11 MSC2295 (AMP)
Q12 2SD1330 (REC : OFF)
Q16 MSD601 (BUFFER)
Q17 MSD601 (BUFFER)
Q18 MSD601
Q19 MSC2295
Q20 MSC2295 (AMP)
Q21 MSC2295 (AMP)
Q22 MSB709 (AMP)
Q23 MSC2295 (AMP)
Q24 MSC2295 (AMP)
Q25 MSC2295 (EQ AMP)
Q26
Q28 MSD601 (BUFFER)
Q29 MSD601 (BUFFER)
Q30 MSC2295 (INV.)
QR1 MRN1404 (S-VHS Ⓗ:ON)
QR2 MRN1404 (POWER ON:ON)
QR3 MRN1404 (S-VHS Ⓛ:ON)
QR4 UN2110 (S-VHS Ⓛ:ON)
QR5 UN1113 (INV.)
QR6 MRN1404 (S VHS Ⓗ:ON)
QR8 MRN1403 (INV.)
QR15 MRN1404 (EE Ⓗ:ON)
QR16 MRN1404 (INV.)
QR17 MRN1404 (INV.)
QR21 MRN2404 (REC:ON)
QR22 MRN1404 (INV.)
FL1 VLF0499
FL2 ELB4L121
FL3 VLF0878 5MHz L.P.F
FL4 VLF0639
FL6 ELB4M022
FL6 ELB5A066
FL7 ELB4R031 102n sec. DL
FL8 ELB4K114
FL9 ELB4K114
P3002 (TO SERVO & SYSTEM CTL) EE Ⓛ 30B
P3002 (TO VIDEO (2)) REC C 6A, EE Ⓗ 8A, PLAY 5V 7AB
P3002 (TO SERVO & SYSTEM CTL) D REC Ⓛ 30A, REC Ⓗ 29A
P3002 (TO POWER DETECTION) 5V 24AB, 12V 23AB
P3002 (TO VIDEO (2)) PB CPS (H) 12A
TP3001 REC 820mVp-p
TP3003 REC 1.1Vp-p
TP3007 PLAY 90mVp-p
TP3002
TPG3001
S-PB1
S-PB2
REC S LEY
VHS REC Y
(SUB LIM.)
(H.P.F.)
NOT USED
REF. NO 3000 SERIES
6
7
8
9
10
11
12
13
14
15
16
17

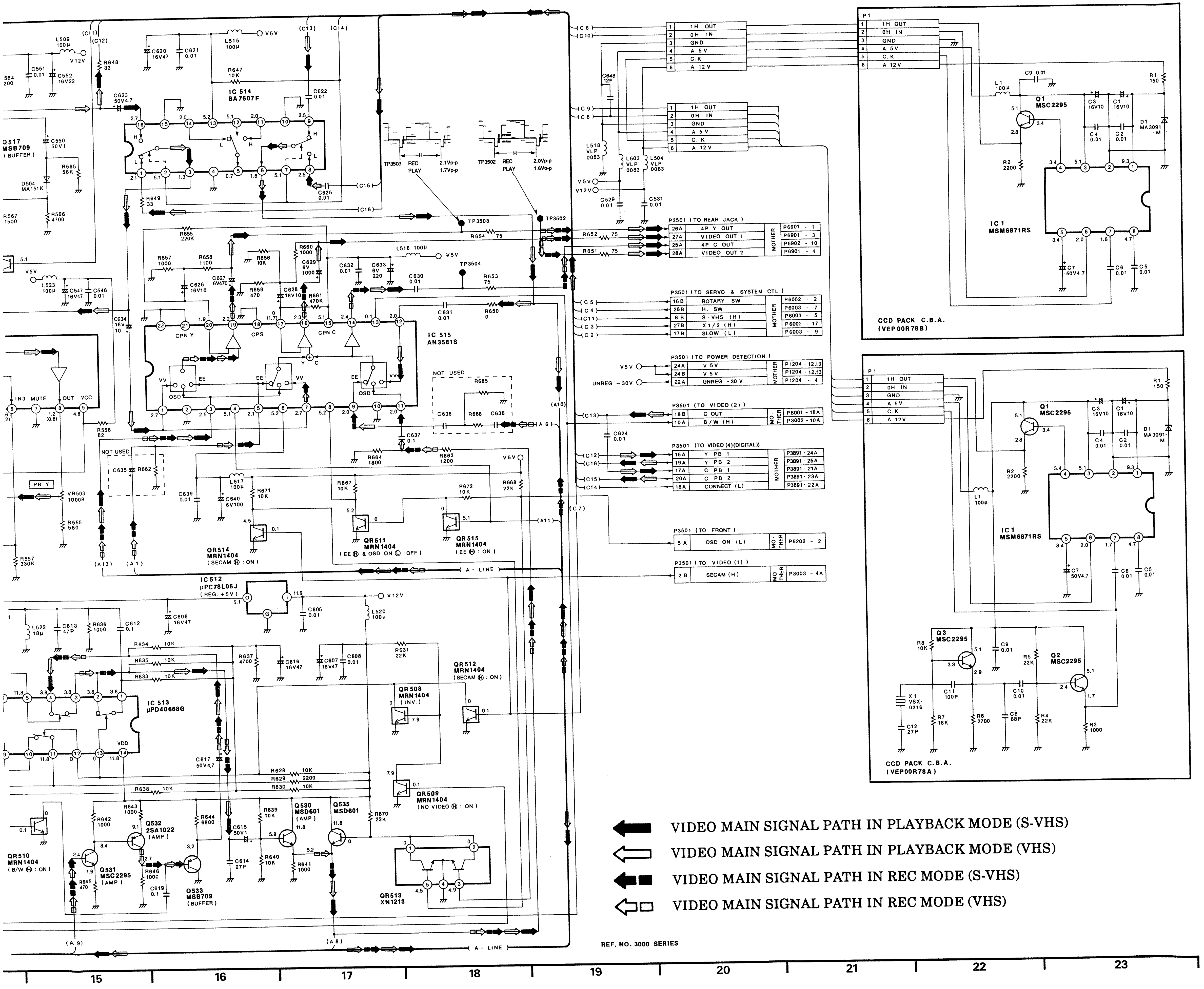
(S-VHS)
(VHS)


A - LINE
Q1 MSD601 (AMP)
FL2 ELB4L121
FL1 VLF0499
Q2 MSD601 (AMP)
QR5 UN1113 (INV.)
L6 VLP0083
P3002 (TO SERVO & SYSTEM CTL)
EE Ⓛ 30B MOTHER P6002-10
P3002 (TO VIDEO (2))
REC C 6A P8001-8B
EE Ⓗ 8A P8001-8A
PLAY 5V 7AB P8001-7B
Q28 MSD601 (BUFFER)
IC2 MN74C4053F
L7 VLP0083
P3002 (TO SERVO & SYSTEM CTL)
D REC Ⓛ 30A MOTHER P6002-12
REC Ⓗ 29A P6002-5
P3002 (TO POWER DETECTION)
5V 24AB MOTHER P1204-12,13
12V 23AB P1204-14,15
TP3003
TP3003 REC 1.1Vp-p
QR6 MRN1404 (S VHS Ⓗ :ON)
TP3001
TP3001 REC 820mVp-p
Q30 MSC2295 (INV.)
Q5 MSD601 (BUFFER)
IC2 MN74HC4053F
VHS REC Y
D2 MA151K
TP3002
NOT USED
Q10 2SA1022 (BUFFER)
REC S LEY
Q9 MSB709 (AMP)
Q11 MSC2295 (AMP)
S-PB2
QR7
QR10
QR12
QR11
Q12 2SD1330 (REC : OFF)
QR8 MRN1403 (INV.)
L15 VLP0083
TPG3001
QR21 MRN2404 (REC : ON)
QR22 MRN1404 (INV.)
(C2)
(C3)
Q29 MSD601 (BUFFER)
(H.P.F.)
IC2 MN74HC4053F
Q18 MSD601
Q19 MSC2295
Q25 MSC2295 (EQ AMP)
FL7 ELB4R031
102n sec. DL
Q20 MSC2295 (AMP)
Q21 MSC2295 (AMP)
Q22 MSB709 (AMP)
FL9 ELB4K114
Q23 MSC2295 (AMP)
Q24 MSC2295 (AMP)
P3002(TO VIDEO (2))
PB CPS (H) 12A MOTHER P8001-12B
IC8 AN6308S
VCC GND NC
(C4)
(C6)
C - LINE
(C8)
REF. NO 3000 SERIES
11
12
13
14
15
16
17
18

VIDEO (3) SCHEMATIC DIAGRAM


P3501 (TO REAR JACK)
P6902 - 8 VIDEO IN 32A
P6902 - 6 4P Y IN 30A
P6902 - 4 4P C IN 29A
P3501 (TO POWER DETECTION)
P1204 - 14,15 V12V 23A
P1204 - 14,15 V12V 23B
P3501 (TO SERVO & SYSTEM CTL)
P6001 - 18 UNREG 13.5V 32B
P6003 - 8 NOTCH (H) 6B
P6003 - 6 EE VIDEO 7A
P3501 (TO FRONT)
P6206 - 4 OSD DATA 4A
P6206 - 3 OSD CS 4B
P6206 - 2 OSD CLK 3B
P6201 - 10 4P (H) 3A
P3501 (TO VIDEO (2))
P8001 - 7B 4P (H) 7B
P8001 - 14B Y/C IN C 14A
P3501 OSD Y 9A
P3501 (TO VIDEO (1))
P3002 - 19B Y OUT 19B
P3002 - 8A E-E (H) 8A
P3002 - 15B Y/C IN Y 15A
P3501 NO VIDEO (H) 6A
MOTHER
V12V
UNREG 13.5V
Q501 MSD601 (AMP)
FL506 VLF0765
FL501 VLF0766
QR520 MRN1404 (SECAM Ⓗ : ON)
QR501 XN1501
Q502 MSC2295 (AMP)
Q503 2SA1022 (AMP)
Q504 MSD601 (BUFFER)
Q506 MSC2295 (AMP)
Q507 2SA1022 (AMP)
Q508 MSD601 (BUFFER)
IC 503 μPC78L05J (REG. +5V)
QR502 MRN1404 (4P Ⓗ : ON)
AGC
VR501 20KB
IC 502 AN3916 - LF
TP3501
TPG3501
REC
PLAY
2.1Vp-p
1.7Vp-p
V5V
FL503 VLF0811
NOT USED
B - LINE
QR517 MRN1404 (NOTCH Ⓗ : ON)
Q534 MSD601 (AMP)
QR516 MRN1404 (B/W Ⓗ : ON)
QR521 MRN1404 (B/W Ⓛ : ON)
250nsec DELAY
DL501 VLD0127
IC 501 M52065FP
GND
VCC
IC 516 TC7S04F
IC 505 MN40308S
QR503 MRN1404 (X1/2 Ⓗ : ON)
D509 MA151K
D507 MA151K
D502 MA151K
D503 MA151K
C - LINE
NOT USED J504
J503
IC 508 NJM22338MA
NOT USED J502
J501
QR506 MRN1404 (EE Ⓗ : ON)
D506 MA151K
Q519 MSD601 (AMP)
Q520 MSB709 (AMP)
Q521 MSD601 (AMP)
Q522 MSD601
IC 507 μPC78L05J (REG. +5V)
IC 509 AN3296S
NO. SYNC DETECTOR
HALF-H KILLER
V-SYNC SEPA
V-OSC
SYNC SEPA
AFC CONTROL
H-OSC
P-COM
D508 MA151K
Q514 2SB641 (REG. -20V)
UNREG -30V
D501 MA3200-MTW
IC 510 MN1280-P (RESET)
RESET
Q523 MSD601
Q524 MSD601 (AMP)
D505 MA28W-ABTW
QR505 MRN1404 (NO VIDEO Ⓗ : ON)
Q525 MSB709 (AMP)
Q526 MSD601 (AMP)
IC 511 M50455-001SP (OSD CHARACTOR GENERATOR)
VSS1
SCK
AC
OSC1
OSC2
N/P
CS
SIN
PAOUT
SYEX
VSS
CVIDEO
CVIN
LEBK
LECHA
CBIN
CAR.
TH501 ERTD2FHL102S
C586 ECV1ZW2DX53T
A - LINE
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11


C - LINE
B - LINE
A - LINE
Q509 MSD601 (AMP)
FL502 ELXTS470GA
3.58MHz L.P.F.
TH501 ERTD2FHL102S
TPG3501
TP3501 REC PLAY 2.1Vp-p 1.7Vp-p
Q510 MSD601 (AMP)
FL507 ELXTS470GA
Q511 MSB709 (AMP)
FL503 VLF0811
NOT USED
FL504 VLF0811
Q512 MSD601 (AMP)
Q513 MSB709 (AMP)
IC 505 MN40308S
QR503 MRN1404 (X1/2 Ⓗ : ON)
IC 516 TC7S04F
D509 MA151K
Q515 MSC2295 (AMP)
Q516 2SA1022 (AMP)
Q517 MSB709 (BUFFER)
D504 MA151K
QR504 MRN1404 (S-VHS Ⓗ : ON)
IC 504 BA7021
IN1 CTL1 IN2 CTL2 GND IN3 MUTE OUT VCC
PB Y
IC 514 BA7607F
TP3503 REC PLAY 2.1Vp-p 1.7Vp-p
TP3502 REC PLAY 2.0Vp-p 1.6Vp-p
TP3504
IC 515 AN3581S
CPN Y CPS CPN C
QR514 MRN1404 (SECAM Ⓗ : ON)
QR511 MRN1404 (EE Ⓗ & OSD ON Ⓛ : OFF)
QR515 MRN1404 (EE Ⓗ : ON)
IC 512 μPC78L05J (REG. +5V)
P3501 (TO REAR JACK)
26A 4P Y OUT
27A VIDEO OUT 1
25A 4P C OUT
28A VIDEO OUT 2
P3501 (TO SERVO & SYSTEM CTL)
16B ROTARY SW
26B H. SW
8B S-VHS (H)
27B X1/2 (H)
17B SLOW (L)
P3501 (TO POWER DETECTION)
24A V 5V
24B V 5V
22A UNREG -30V
P3501 (TO VIDEO (2))
18B C OUT
10A B/W (H)
P3501 (TO VIDEO (4)(DIGITAL))
16A Y PB 1
19A Y PB 2
17A C PB 1
20A C PB 2
18A CONNECT (L)
P3501 (TO FRONT)
5A OSD ON (L)
P3501 (TO VIDEO (1))
2B SECAM (H)
MOTHER
1 1H OUT
2 0H IN
3 GND
4 A 5V
5 C.K
6 A 12V
IC 510 MN1280-P (RESET)
QR505 MRN1404 (NO VIDEO Ⓗ : ON)
Q525 MSB709 (AMP)
Q526 MSD601 (AMP)
IC 511 M50455-001SP (OSD CHARACTOR GENERATOR)
VSS1 SCK AC OSC1 OSC2 N/P CS SIN PAOUT SYEX VSS CVIDEO CVIN LEBK LECHA CBIN
VDD VERT HOR OSC IN OSC OUT CSTN R G B CO BLNK YM CB RS VDD2 RSIN
X501 VSX0114-B
Q527 MSD601 (INV.)
Q528 MSD601 (INV.)
Q529 MSD601 (BUFFER)
IC 513 μPD40666G
QR507 MRN1402 (B/W Ⓗ : ON)
QR510 MRN1404 (B/W Ⓗ : ON)
Q531 MSC2295 (AMP)
Q532 2SA1022 (AMP)
Q533 MSB709 (BUFFER)
Q530 MSD601 (AMP)
Q535 MSD601
QR508 MRN1404 (INV.)
QR509 MRN1404 (NO VIDEO Ⓗ : ON)
QR512 MRN1404 (SECAM Ⓗ : ON)
QR513 XN1213
VIDEO MAIN SIGN.
VIDEO MAIN SIGN.
VIDEO MAIN SIGN.
VIDEO MAIN SIGN.
REF. NO. 3000 SERIES
9
10
11
12
13
14
15
16
17
18
19
20


IC 514
BA7607F
IC 515
AN3581S
IC 512
μPC78L05J
(REG. +5V)
IC 513
μPD40668G
QR514
MRN1404
(SECAM Ⓗ : ON)
QR511
MRN1404
(EE Ⓗ & OSD ON Ⓛ : OFF)
QR515
MRN1404
(EE Ⓗ : ON)
QR512
MRN1404
(SECAM Ⓗ : ON)
QR508
MRN1404
(INV.)
QR509
MRN1404
(NO VIDEO Ⓗ : ON)
QR510
MRN1404
(B/W Ⓗ : ON)
Q531
MSC2295
(AMP)
Q532
2SA1022
(AMP)
Q533
MSB709
(BUFFER)
Q530
MSD601
(AMP)
Q535
MSD601
QR513
XN1213
Q517
MSB709
(BUFFER)
TP3503
TP3502
TP3504
REC
PLAY
2.1Vp-p
1.7Vp-p
2.0Vp-p
1.6Vp-p
NOT USED
P3501 (TO REAR JACK)
26A 4P Y OUT
27A VIDEO OUT 1
25A 4P C OUT
28A VIDEO OUT 2
P6901 - 1
P6901 - 3
P6902 - 10
P6901 - 4
P3501 (TO SERVO & SYSTEM CTL)
16B ROTARY SW
26B H. SW
8B S-VHS (H)
27B X1/2 (H)
17B SLOW (L)
P6002 - 2
P6003 - 7
P6003 - 5
P6002 - 17
P6003 - 9
P3501 (TO POWER DETECTION)
24A V 5V
24B V 5V
22A UNREG -30V
P1204 - 12,13
P1204 - 12,13
P1204 - 4
P3501 (TO VIDEO (2))
18B C OUT
10A B/W (H)
P8001 - 18A
P3002 - 10A
P3501 (TO VIDEO (4)(DIGITAL))
16A Y PB 1
19A Y PB 2
17A C PB 1
20A C PB 2
18A CONNECT (L)
P3891 - 24A
P3891 - 25A
P3891 - 21A
P3891 - 23A
P3891 - 22A
P3501 (TO FRONT)
5A OSD ON (L)
P6202 - 2
P3501 (TO VIDEO (1))
2B SECAM (H)
P3003 - 4A
MOTHER
A - LINE
P1
1H OUT
0H IN
GND
A 5V
C.K
A 12V
Q1
MSC2295
IC1
MSM6871RS
D1
MA3091-M
CCD PACK C.B.A.
(VEP00R78B)
Q2
MSC2295
Q3
MSC2295
X1
VSX-0316
CCD PACK C.B.A.
(VEP00R78A)
V5V
V12V
UNREG -30V
15
16
17
18
19
20
21
22
23

◀ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)

⇦ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)

◀■ VIDEO MAIN SIGNAL PATH IN REC MODE (S-VHS)

⇦□ VIDEO MAIN SIGNAL PATH IN REC MODE (VHS)

REF. NO. 3000 SERIES

VIDEO (3) C.B.A.

Transistor	
Q3501	A-7 ©
Q3502	A-5 Ⓕ
Q3503	A-5 Ⓕ
Q3504	A-6 ©
Q3506	A-5 Ⓕ
Q3507	A-5 Ⓕ
Q3508	A-7 ©
Q3509	A-1 Ⓕ
Q3510	B-2 Ⓕ
Q3511	B-2 Ⓕ
Q3511	B-7 ©
Q3512	C-1 Ⓕ
Q3513	C-2 Ⓕ
Q3514	A-3 Ⓕ
Q3514	A-8 ©
Q3515	B-2 Ⓕ
Q3516	B-3 Ⓕ
Q3517	B-2 Ⓕ
Q3519	B-5 Ⓕ
Q3520	B-7 ©
Q3521	B-5 Ⓕ
Q3522	B-6 ©
Q3523	B-5 Ⓕ
Q3524	B-5 Ⓕ
Q3525	B-4 Ⓕ
Q3526	A-4 Ⓕ
Q3527	B-4 Ⓕ
Q3528	B-4 Ⓕ
Q3529	B-4 Ⓕ
Q3531	A-8 ©
Q3532	B-8 ©
Q3533	B-4 Ⓕ
Q3534	A-2 Ⓕ

Transistor & Resistor	
QR3501	A-7 ©
QR3502	B-5 Ⓕ
QR3503	A-4 Ⓕ
QR3504	A-2 Ⓕ
QR3505	B-7 ©
QR3506	B-4 Ⓕ
QR3507	B-8 ©
QR3508	B-3 Ⓕ
QR3509	A-4 Ⓕ
QR3510	B-8 ©
QR3511	A-2 Ⓕ
QR3512	A-10 ©
QR3513	A-2 Ⓕ
QR3514	A-2 Ⓕ
QR3515	A-2 Ⓕ
QR3516	A-2 Ⓕ
QR3517	A-2 Ⓕ
QR3520	A-5 Ⓕ
QR3521	A-10 ©
QR3530	B-3 Ⓕ
QR3535	B-3 Ⓕ

Integrated Circuit	
IC3501	A-6 ©
IC3502	B-5 Ⓕ
IC3502	B-6 ©
IC3503	A-4 Ⓕ
IC3503	A-8 ©
IC3504	C-2 Ⓕ
IC3504	C-9 ©
IC3505	A-10 ©
IC3507	C-5 Ⓕ
IC3507	C-7 ©
IC3508	A-5 Ⓕ
IC3509	B-7 ©
IC3510	C-4 Ⓕ
IC3510	C-7 ©
IC3511	B-4 Ⓕ
IC3512	C-4 Ⓕ
IC3512	C-8 ©
IC3513	B-8 ©
IC3514	B-9 ©
IC3515	B-8 ©
IC3516	A-5 Ⓕ

Test Point	
TP3501	B-5 Ⓕ
TP3501	B-7 ©
TP3502	C-3 Ⓕ
TP3502	C-9 ©
TP3503	C-3 Ⓕ
TP3503	C-9 ©
TP3504	C-3 Ⓕ
TP3504	C-9 ©
TPG3501	C-2 Ⓕ

Adjustment	
C3586	B-4 Ⓕ
C3586	B-7 ©
VR3501	B-5 Ⓕ
VR3501	C-6 ©
VR3502	B-2 Ⓕ
VR3502	C-10 ©
VR3503	C-2 Ⓕ
VR3503	C-9 ©

Connector	
P3501	A-3 Ⓕ
P3501	A-9 ©

ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

CCD PACK (1) C.B.A.

Transistor	
Q1	C-1
Q2	C-1
Q3	C-1
Integrated Circuit	
IC1	C-1
Connector	
P1	C-1

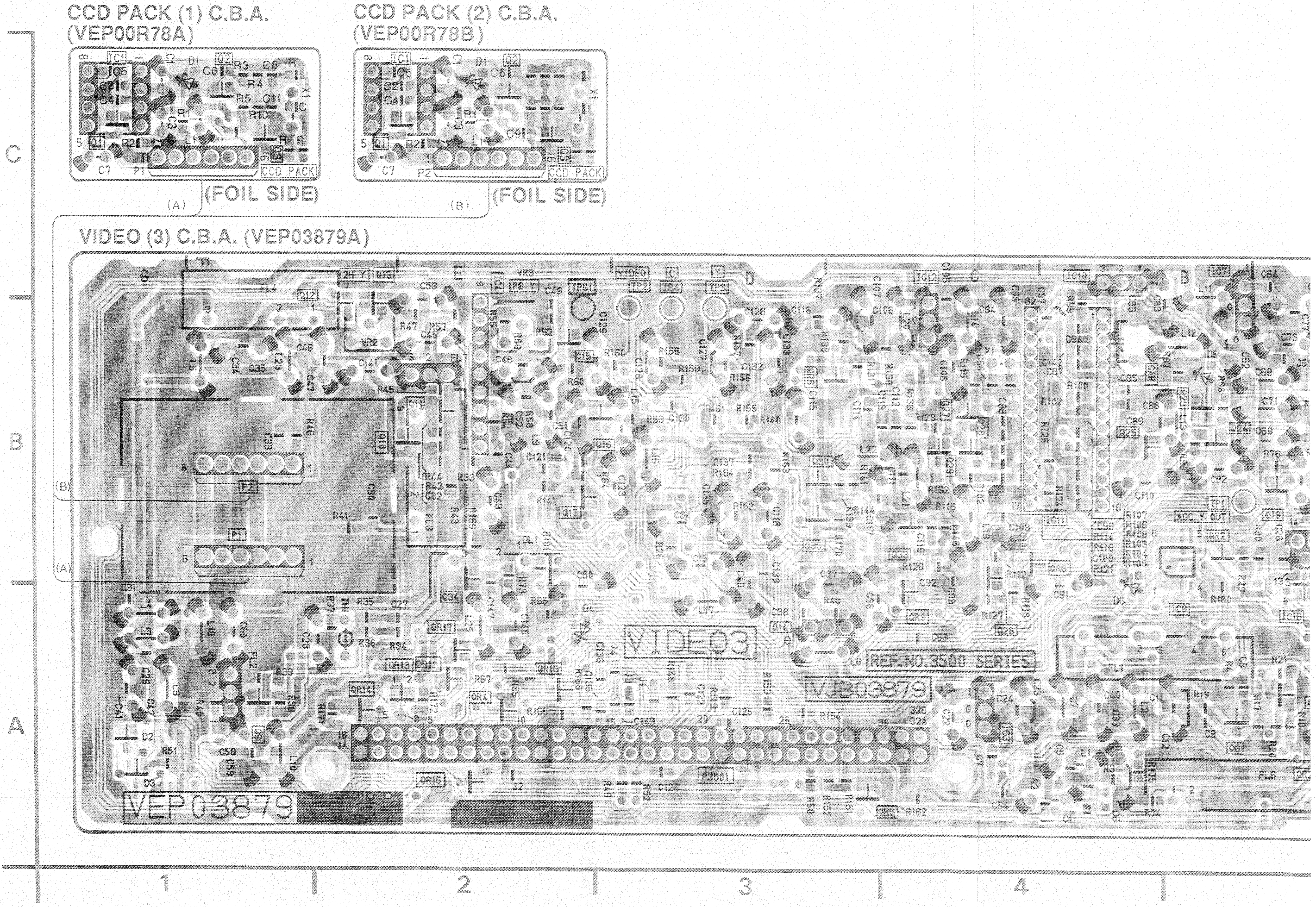
ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

CCD PACK (2) C.B.A.

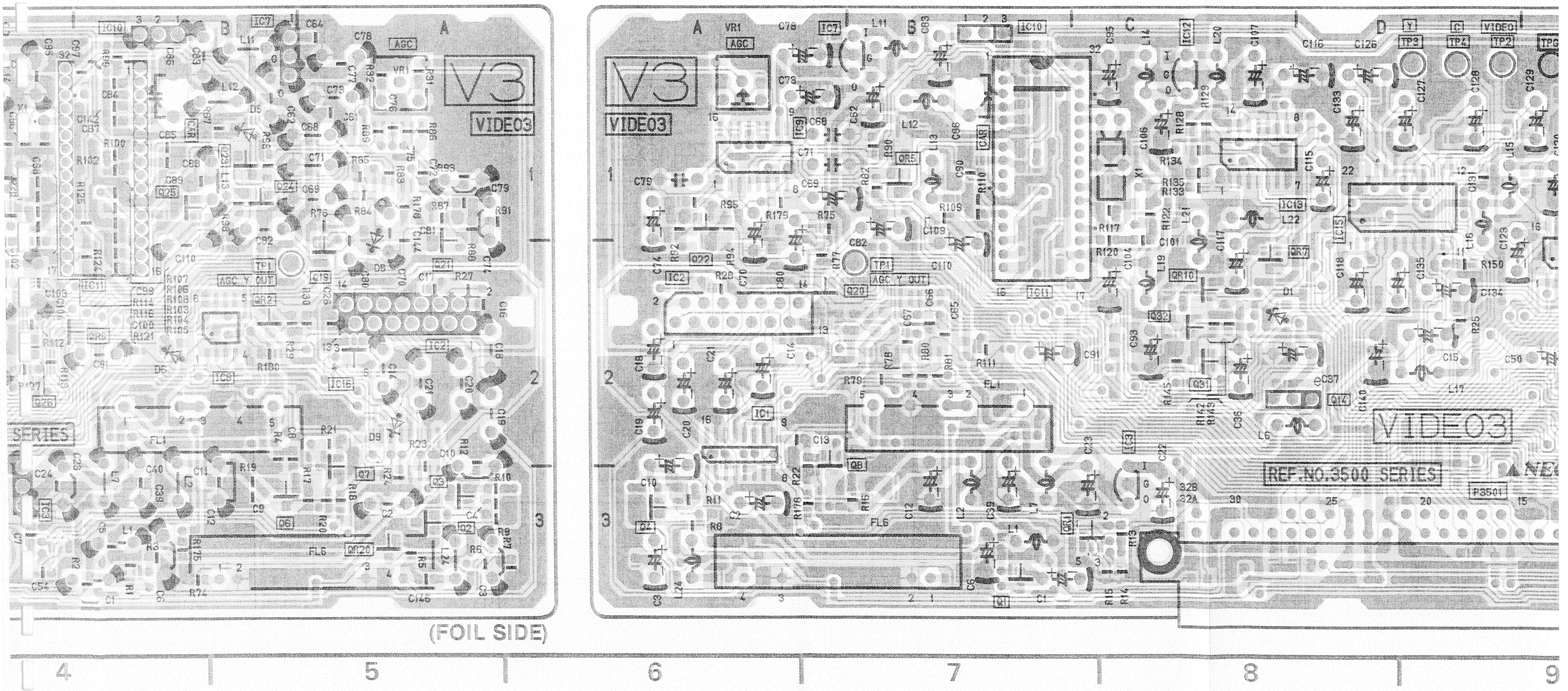
Transistor	
Q1	C-2
Q2	C-2
Q3	C-2
Integrated Circuit	
IC1	C-2
Connector	
P1	C-2

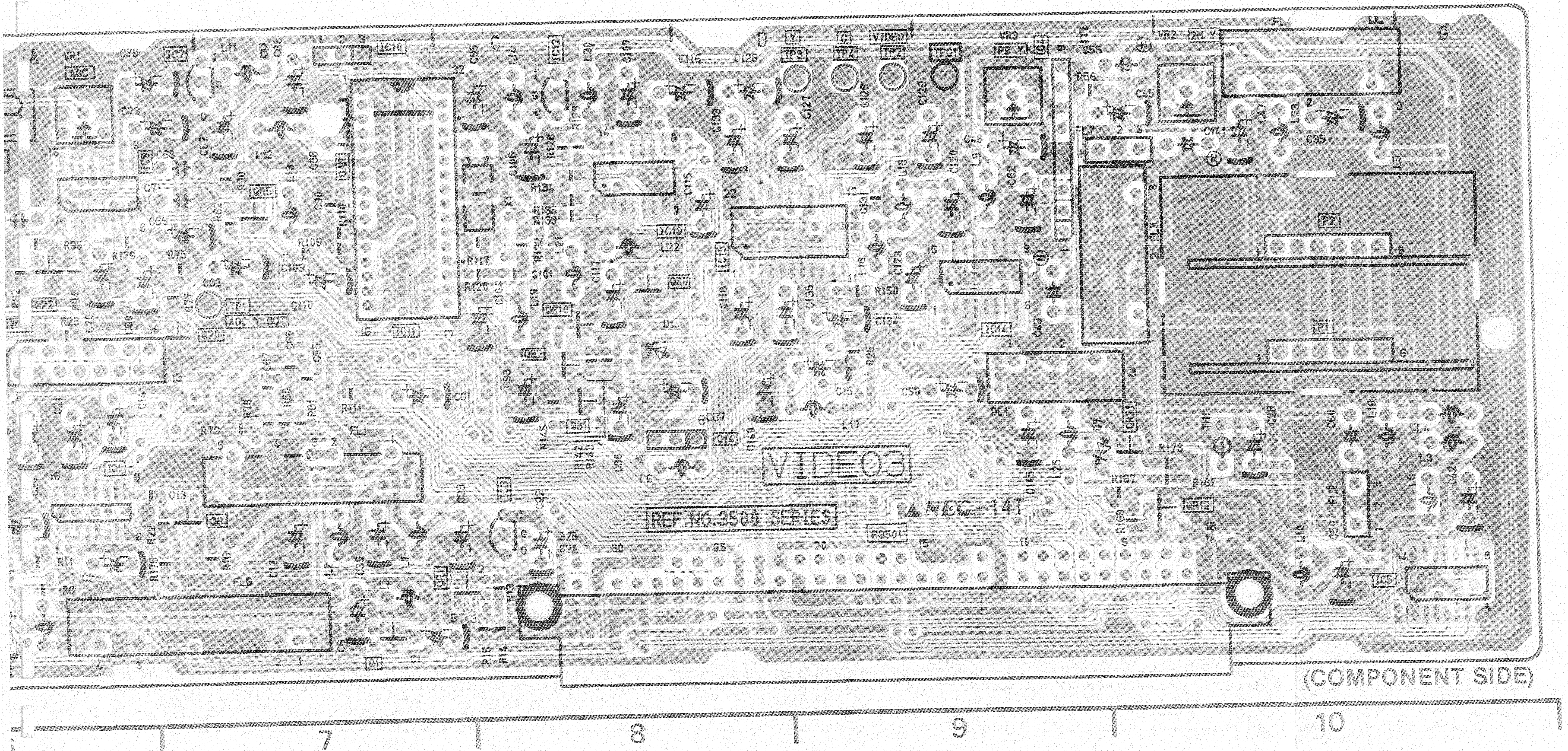
ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

VIDEO (3) C.B.A. (VEP03879A), CCD PACK (1) C.B.A. (VEP00R78A) AND CCD PACK (2) C.B.A. (VEP00R78B)


CCD PACK (1) C.B.A.
(VEP00R78A)
CCD PACK (2) C.B.A.
(VEP00R78B)
(FOIL SIDE)
(A)
(FOIL SIDE)
(B)
VIDEO (3) C.B.A. (VEP03879A)
VIDEO03
REF.NO.3500 SERIES
VJB03879
VEP03879
P3501
AGC Y OUT
C
B
A
1
2
3
4

R78B)


V3
VIDEO3
VIDEO3
V3
VIDEO3
AGC
VR1
TP1
AGC Y OUT
SERIES
REF.NO.3500 SERIES
▲NE
Y
C
VIDEO
TP3
TP4
TP2
A
B
C
D
1
2
3
IC1
IC2
IC3
IC7
IC9
IC10
IC11
IC12
IC13
IC15
IC16
FL1
FL6
X1
P3501
(FOIL SIDE)
4
5
6
7
8
9


A
B
C
D
E
F
G
VR1
AGC
VR3
PB Y
VR2
2H Y
TP1
AGC Y OUT
TP2
VIDEO
TP3
Y
TP4
C
TPG1
IC1
IC3
IC4
IC5
IC7
IC9
IC10
IC11
IC12
IC13
IC14
IC15
FL1
FL2
FL3
FL4
FL6
FL7
P1
P2
DL1
X1
D1
D7
TH1
VIDEO03
REF.NO.3500 SERIES
▲NEC-14T
P3501
7
8
9
10

(COMPONENT SIDE)

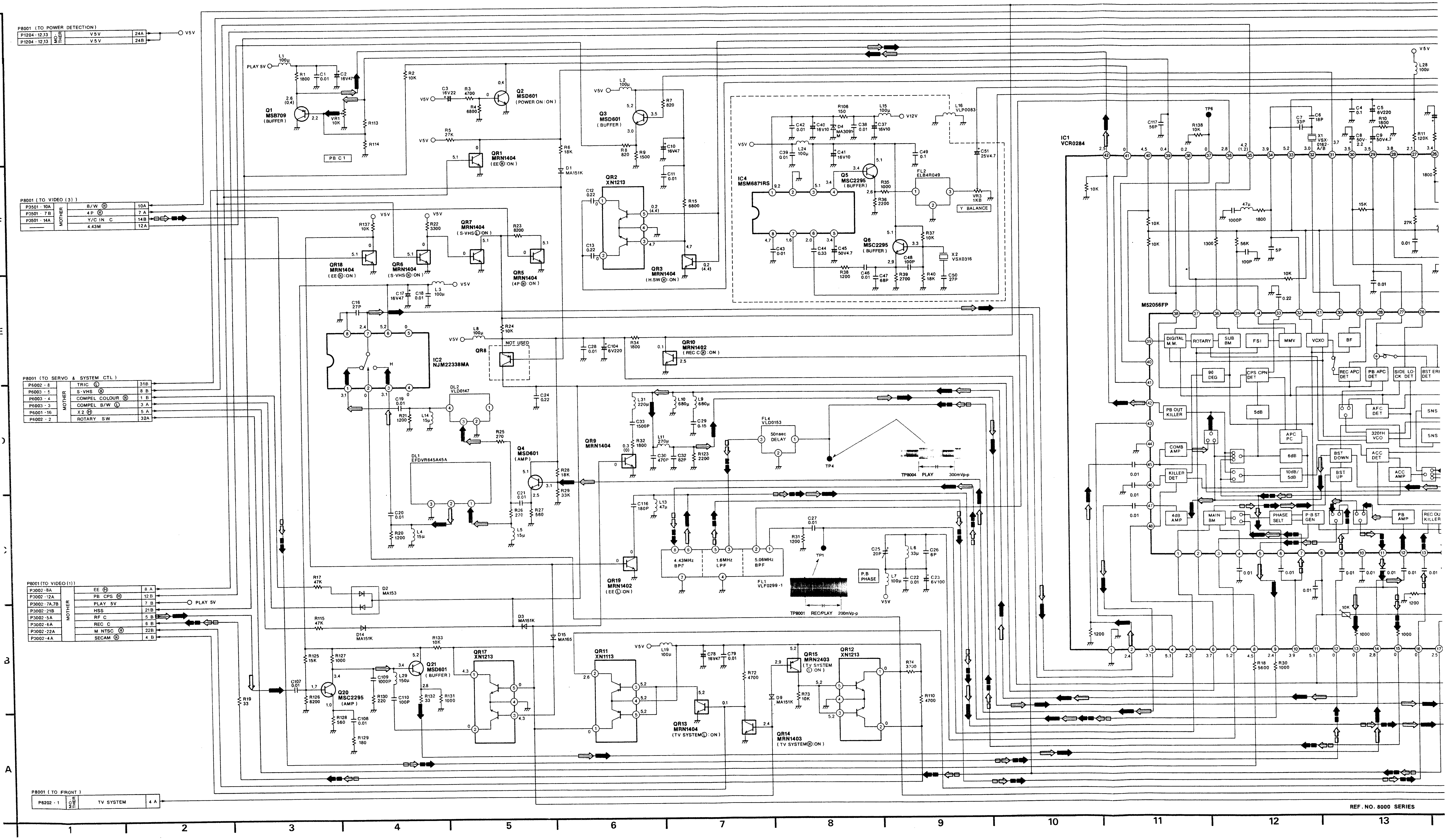
VIDEO (2) SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE (S-VHS)

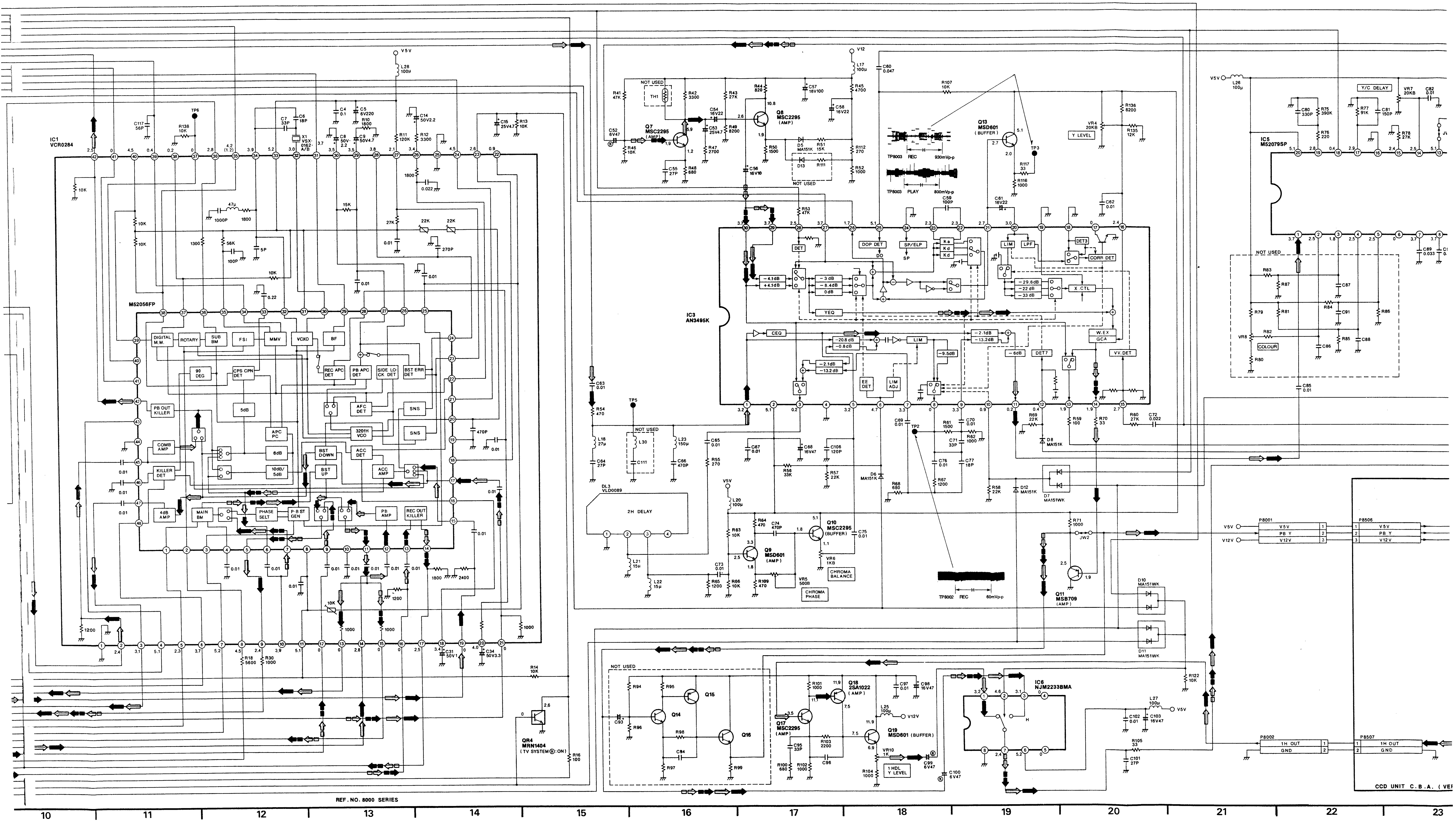
VIDEO MAIN SIGNAL PATH IN REC MODE (VHS)

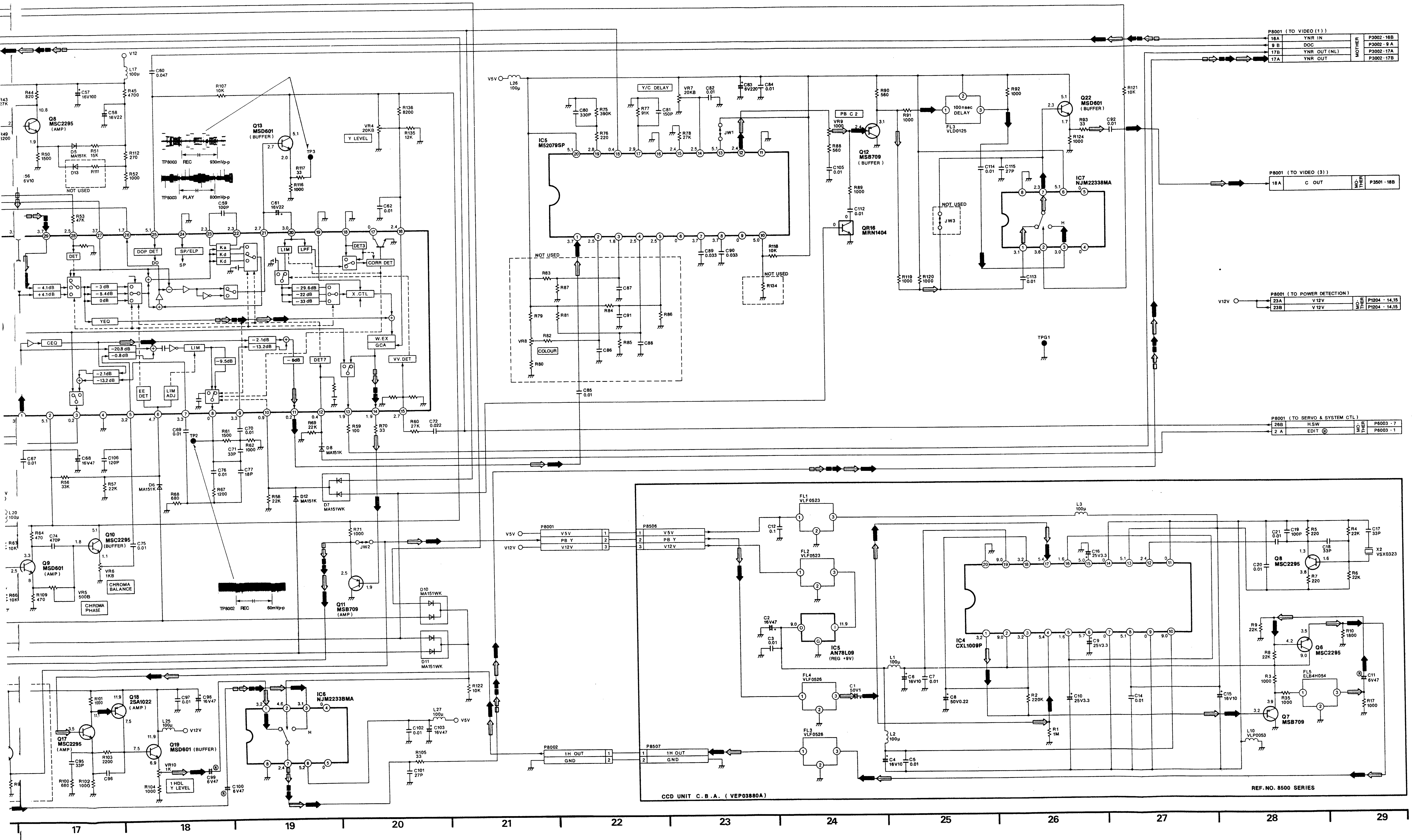
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)

VIDEO MAI


P8001 (TO POWER DETECTION)
P1204 · 12,13
V5V
24A
24B
PLAY 5V
L1 100μ
R1 1800
C1 0.01
C2 16V47
Q1 MSB709 (BUFFER)
VR1 10K
R113
R114
PB C 1
R2 10K
C3 16V22
R3 4700
R4 6800
Q2 MSD601 (POWER ON : ON)
R5 27K
QR1 MRN1404 (EE Ⓡ : ON)
R6 18K
D1 MA151K
L2 100μ
Q3 MSD601 (BUFFER)
R7 820
R8 820
R9 1500
C10 16V47
C11 0.01
QR2 XN1213
C12 0.22
C13 0.22
R15 6800
QR3 MRN1404 (H.SW Ⓡ : ON)
IC4 MSM6871RS
R106 150
L15 100μ
V12V
L16 VLP0083
C42 0.01
C40 16V10
D4 MA3091
C38 0.01
C37 16V10
L24 100μ
C39 0.01
C41 16V10
Q5 MSC2295 (BUFFER)
R35 1000
R36 2200
C49 0.1
FL2 ELB4R049
C51 25V4.7
VR3 1KB
Y BALANCE
C43 0.01
C44 0.33
C45 50V4.7
Q6 MSC2295 (BUFFER)
R37 10K
C48 100P
X2 VSX0316
R38 1200
C46 0.01
C47 68P
R39 2700
R40 18K
C50 27P
P8001 (TO VIDEO (3))
P3501 · 10A
P3501 · 7B
P3501 · 14A
MOTHER
B/W Ⓡ
4P Ⓡ
Y/C IN C
4.43M
10A
7A
14B
12A
R137 10K
QR18 MRN1404 (EE Ⓡ : ON)
R22 3300
QR6 MRN1404 (S-VHS Ⓡ : ON)
QR7 MRN1404 (S-VHS Ⓛ : ON)
R23 8200
QR5 MRN1404 (4P Ⓡ : ON)
C17 16V47
C18 0.01
L3 100μ
C16 27P
IC2 NJM22338MA
L8 100μ
R24 10K
QR8
NOT USED
C28 0.01
C104 6V220
R34 1800
QR10 MRN1402 (REC C Ⓡ : ON)
C24 0.22
P8001 (TO SERVO & SYSTEM CTL)
P6002 · 8
P6003 · 5
P6003 · 4
P6003 · 3
P6001 · 16
P6002 · 2
TRIC Ⓛ
S-VHS Ⓗ
COMPEL COLOUR Ⓗ
COMPEL B/W Ⓛ
X2 Ⓗ
ROTARY SW
31B
8B
1B
3A
5A
32A
C19 0.01
DL2 VLD0147
R21 1200
L14 15μ
R25 270
DL1 EFDVR645A45A
Q4 MSD601 (AMP)
R28 18K
R29 33K
C21 0.01
R26 270
R27 560
L5 15μ
C20 0.01
R20 1200
L4 15μ
L31 220μ
L10 680μ
L9 680μ
C33 1500P
C29 0.15
L11 270μ
C30 470P
C32 82P
R123 2200
R32 1800
QR9 MRN1404
FL4 VLD0153
50nsec DELAY
TP4
TP8004 PLAY 300mVp-p
C116 180P
L13 47μ
4.43MHz BPF
1.6MHz LPF
5.06MHz BPF
FL1 VLF0299-1
C27 0.01
R31 1200
TP1
TP8001 REC/PLAY 200mVp-p
C25 20P
L6 33μ
C26 6P
P.B PHASE
L7 100μ
C22 0.01
C23 6V100
QR19 MRN1402 (EE Ⓛ : ON)
P8001 (TO VIDEO (1))
P3002 · 8A
P3002 · 12A
P3002 · 7A,7B
P3002 · 21B
P3002 · 5A
P3002 · 6A
P3002 · 22A
P3002 · 4A
EE Ⓗ
PB CPS Ⓗ
PLAY 5V
HSS
RF C
REC C
M NTSC Ⓡ
SECAM Ⓡ
R17 47K
D2 MA153
R115 47K
D14 MA151K
D3 MA151K
D15 MA165
R125 15K
R127 1000
C107 0.01
Q20 MSC2295 (AMP)
R126 8200
R128 560
C108 0.01
R129 180
R19 33
C109 1000P
L29 150μ
Q21 MSD601 (BUFFER)
R130 220
C110 100P
R132 33
R131 1000
R133 10K
QR17 XN1213
QR11 XN1113
L19 100μ
C78 16V47
C79 0.01
QR13 MRN1404 (TV SYSTEM Ⓛ : ON)
R72 4700
QR14 MRN1403 (TV SYSTEM Ⓡ : ON)
QR15 MRN2403 (TV SYSTEM Ⓛ : ON)
D9 MA151K
R73 10K
QR12 XN1213
R74 3300
R110 4700
P8001 (TO FRONT)
P6202 · 1
TV SYSTEM
4A
IC1 VCR0284
M52056FP
TP6
C117 56P
R138 10K
C7 33P
C6 18P
X1 VSX-0162-A/B
C4 0.1
C5 6V220
R10 1800
C8 50V2.2
C9 50V4.7
R11 120K
L28 100μ
DIGITAL M.M.
ROTARY
SUB BM
FSI
MMV
VCXO
BF
90 DEG
CPS CPN DET
REC APC DET
PB APC DET
SIDE LOCK DET
BST ERR DET
PB OUT KILLER
5dB
AFC DET
SNS
320fH VCO
APC PC
COMB AMP
6dB
BST DOWN
ACC DET
KILLER DET
10dB/5dB
BST UP
ACC AMP
4dB AMP
MAIN BM
PHASE SELT
P-B ST GEN
PB AMP
REC OUT KILLER
R18 5600
R30 1000
REF. NO. 8000 SERIES
1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G

AL PATH IN PLAYBACK MODE (S-VHS)   VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)


IC1
VCR0284
M52056FP
DIGITAL M.M.
ROTARY
SUB BM
FSI
MMV
VCXO
BF
90 DEG
CPS CPN DET
REC APC DET
PB APC DET
SIDE LOCK DET
BST ERR DET
5dB
APC PC
AFC DET
SNS
320fH VCO
8dB
10dB/5dB
BST DOWN
BST UP
ACC DET
ACC AMP
PB OUT KILLER
COMB AMP
KILLER DET
4dB AMP
MAIN BM
PHASE SELT
P-B ST GEN
PB AMP
REC OUT KILLER
X1 VSX-0162-A/B
TP6
V5V
Q7 MSC2295 (AMP)
Q8 MSC2295 (AMP)
NOT USED
TH1
D5 MA151K
D13
Q13 MSD601 (BUFFER)
TP3
TP8003 REC 930mVp-p
TP8003 PLAY 800mVp-p
V12
Y LEVEL
IC3
AN3495K
DET
DOP DET
SP/ELP
Ka
Kd
DET3
CORR DET
LIM
LPF
-4.1dB
+4.1dB
-3 dB
-8.4dB
0dB
YEQ
-29.6dB
-22 dB
-33 dB
X CTL
CEQ
-20.8 dB
-0.8 dB
-2.1dB
-13.2dB
-2.1dB
-13.2dB
-9.5dB
-6dB
DET7
W.EX GCA
VV.DET
EE DET
LIM ADJ
TP5
TP2
DL3
VLD0089
2H DELAY
Q9 MSD601 (AMP)
Q10 MSC2295 (BUFFER)
VR5 500B
VR6 1KB
CHROMA BALANCE
CHROMA PHASE
TP8002 REC 60mVp-p
Q11 MSB709 (AMP)
D6 MA151K
D7 MA151WK
D8 MA151K
D10 MA151WK
D11 MA151WK
D12 MA151K
JW2
IC5
M52079SP
Y/C DELAY
COLOUR
VR8
P8001
V5V
PB Y
V12V
P8506
QR4
MRN1404
(TV SYSTEM Ⓡ:ON)
Q14
Q15
Q16
Q17 MSC2295 (AMP)
Q18 2SA1022 (AMP)
Q19 MSD601 (BUFFER)
VR10 1K
1 HDL Y LEVEL
IC6
NJM2233BMA
P8002
1H OUT
GND
P8507
CCD UNIT C.B.A. (VE
REF. NO. 8000 SERIES
10
11
12
13
14
15
16
17
18
19
20
21
22
23

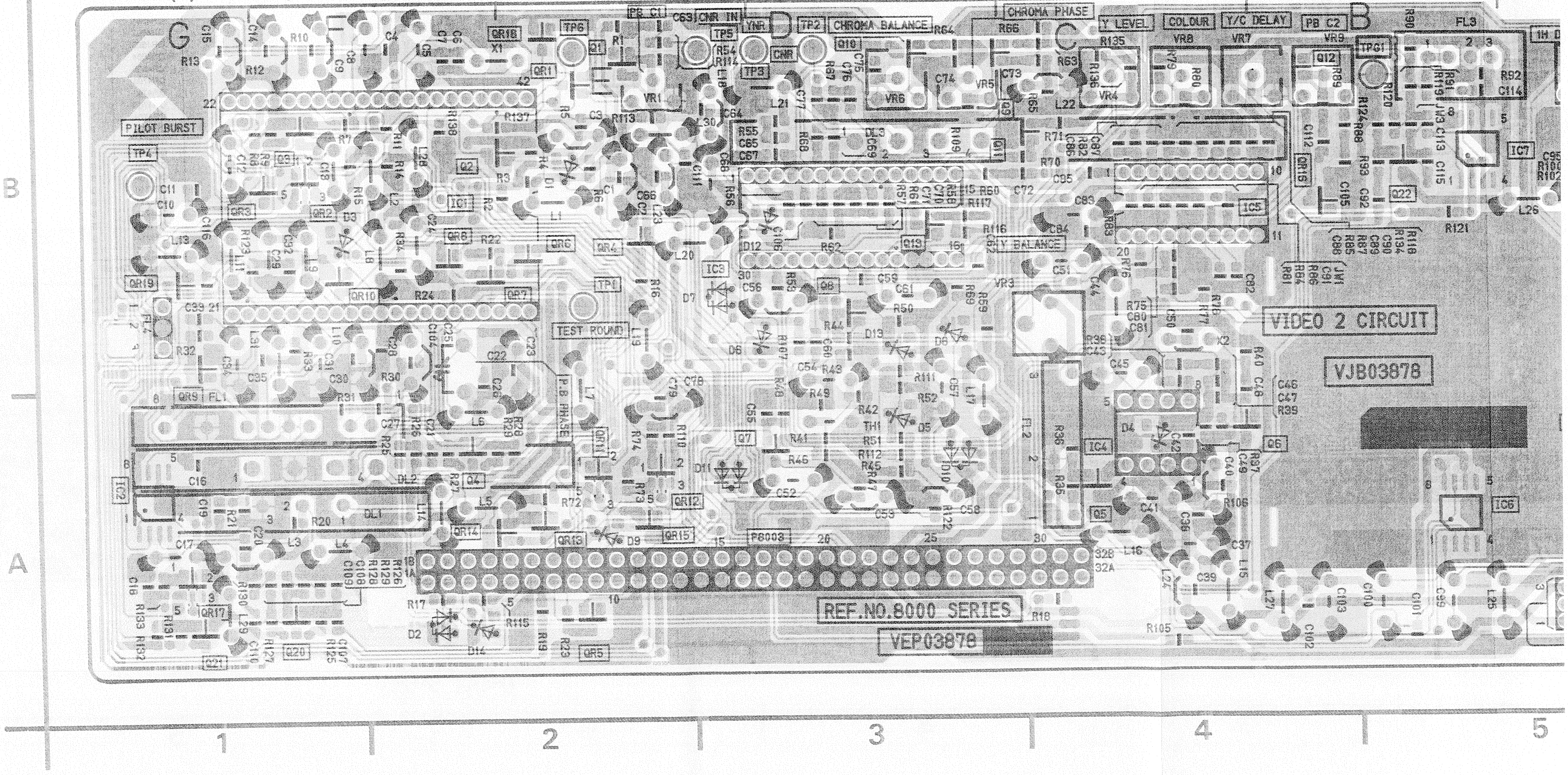

P8001 (TO VIDEO (1))
16A YNR IN P3002 - 16B
9 B DOC P3002 - 9 A
17B YNR OUT (NL) P3002 - 17A
17A YNR OUT P3002 - 17B
MOTHER
P8001 (TO VIDEO (3))
18A C OUT P3501 - 18B
P8001 (TO POWER DETECTION)
23A V12V P1204 - 14,15
23B V12V P1204 - 14,15
P8001 (TO SERVO & SYSTEM CTL)
26B H.SW P6003 - 7
2 A EDIT P6003 - 1
IC5 M52079SP
Y/C DELAY
Y LEVEL
COLOUR
NOT USED
PB C 2
Q12 MSB709 (BUFFER)
QR16 MRN1404
FL3 VLD0125
100nsec DELAY
Q22 MSD601 (BUFFER)
IC7 NJM22338MA
JW3
JW1
TPG1
Q8 MSC2295 (AMP)
Q13 MSD601 (BUFFER)
TP3
TP8003 REC 930mVp-p
TP8003 PLAY 800mVp-p
DOP DET
SP/ELP
LIM
LPF
DET3
CORR DET
X.CTL
YEQ
CEQ
W.EX GCA
VV.DET
DET7
EE DET
LIM ADJ
TP2
Q9 MSD601 (AMP)
Q10 MSC2295 (BUFFER)
CHROMA BALANCE
CHROMA PHASE
TP8002 REC 60mVp-p
Q11 MSB709 (AMP)
JW2
D10 MA151WK
D11 MA151WK
Q17 MSC2295 (AMP)
Q18 2SA1022 (AMP)
Q19 MSD601 (BUFFER)
1 HDL Y LEVEL
IC6 NJM2233BMA
P8001
V5V
PB Y
V12V
P8506
P8002
1H OUT
GND
P8507
FL1 VLF0523
FL2 VLF0523
IC5 AN78L09 (REG +9V)
FL4 VLF0526
FL3 VLF0526
IC4 CXL1009P
Q8 MSC2295
X2 VSX0323
Q6 MSC2295
FL5 ELB4H054
Q7 MSB709
L10 VLP0053
CCD UNIT C.B.A. (VEP03880A)
REF. NO. 8500 SERIES
17
18
19
20
21
22
23
24
25
26
27
28
29

VIDEO (2) C.B.A. (VEP03878A) AND CCD UNIT C.B.A. (VEP03880A)

VIDEO (2) C.B.A.	
Transistor	
Q3011	B-3
Q8001	B-2
Q8002	B-2
Q8003	B-1
Q8004	A-2
Q8005	A-4
Q8006	A-4
Q8007	A-3
Q8008	B-3
Q8009	B-3
Q8010	B-3
Q8012	B-4
Q8013	B-3
Q8014	A-5
Q8015	A-5
Q8016	A-5
Q8017	B-5
Q8018	B-6
Q8019	B-5
Q8020	A-1
Q8021	A-1
Q8022	B-5
Transistor & Resistor	
QR8001	B-2
QR8002	B-1
QR8003	B-1
QR8004	B-2
QR8005	A-2
QR8006	B-2
QR8007	B-2
QR8008	B-2
QR8009	B-1
QR8010	B-2
QR8011	A-2
QR8012	A-2
QR8013	A-2
QR8014	A-2
QR8015	A-2
QR8016	B-4
QR8017	A-1
QR8018	B-2
QR8019	B-1
Integrated Circuit	
IC8001	B-2
IC8002	A-1
IC8003	B-3
IC8004	A-4
IC8005	B-4
IC8006	A-5
IC8007	B-5
Test Point	
TP8001	B-2
TP8002	B-3
TP8003	B-3
TP8004	B-1
TP8005	B-3
TP8006	B-2
TPG8001	B-5
Adjustment	
C8025	B-2
VR8001	B-2
VR8003	B-3
VR8004	B-4
VR8005	B-3
VR8006	B-3
VR8007	B-4
VR8008	B-4
VR8009	B-4
VR8010	B-5
Connector	
P8001	A-5
P8002	B-5
P8003	A-3

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

VIDEO (2) C.B.A. (VEP03878A)

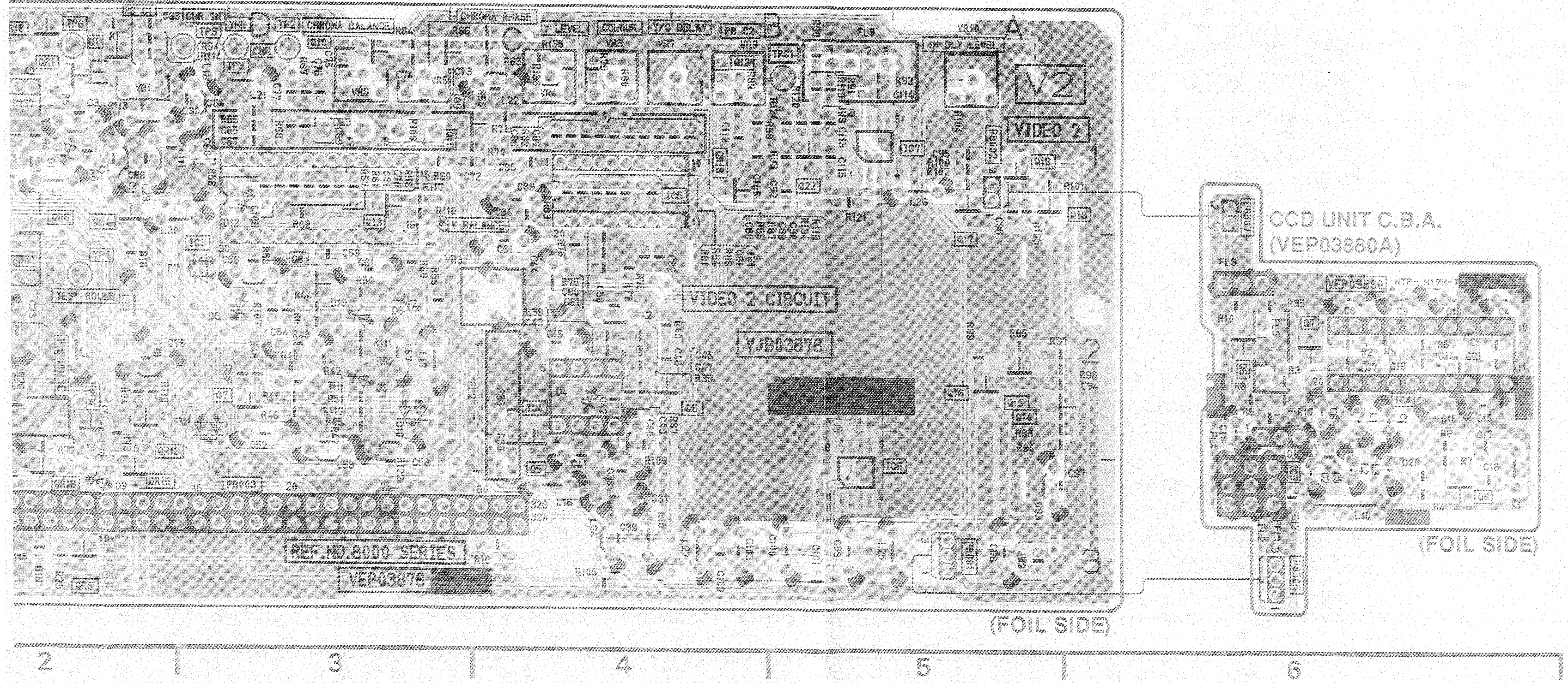


B
A
1
2
3
4
5
PILOT BURST
TP4
TEST ROUND
P.B PHASE
PB C1
CNR IN
TP5
YNR
CNR
TP3
TP2
TP6
CHROMA BALANCE
CHROMA PHASE
Y LEVEL
COLOUR
Y/C DELAY
PB C2
TPG1
Y BALANCE
FL3
IC1
IC2
IC3
IC4
IC5
IC6
IC7
VIDEO 2 CIRCUIT
VJB03878
P8003
REF.NO.8000 SERIES
VEP03878

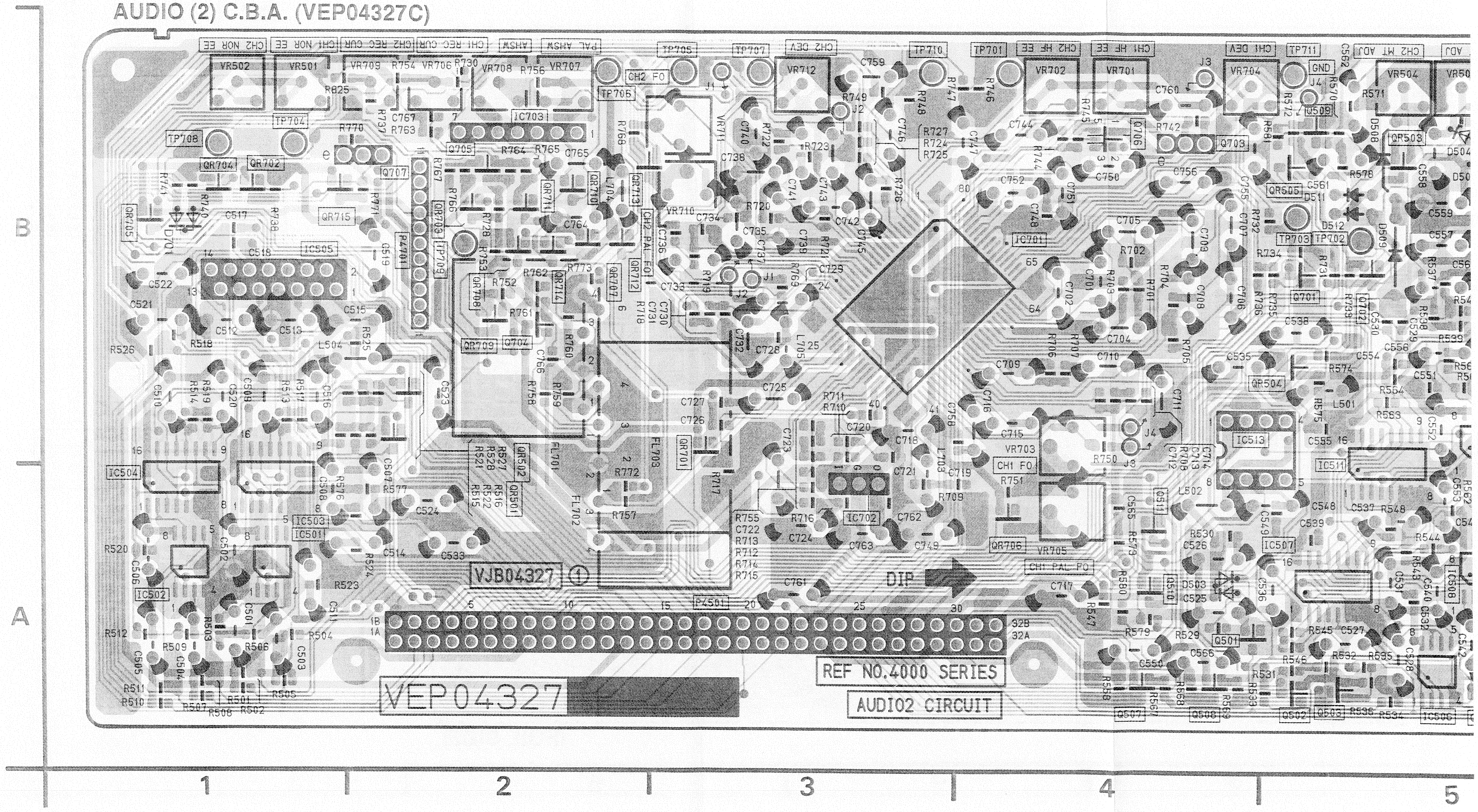
IT C.B.A. (VEP03880A)

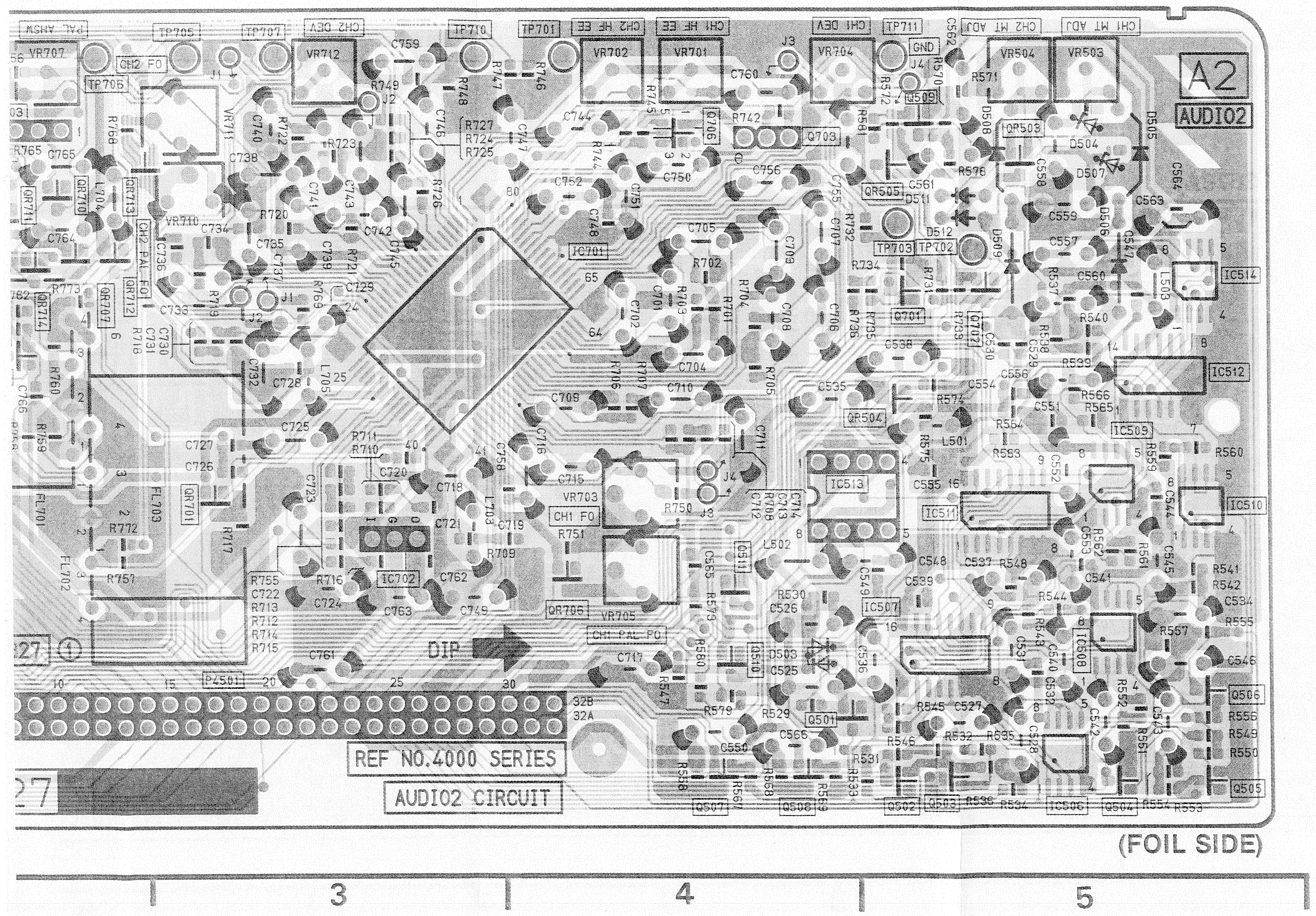
CCD UNIT	
Transistor	
Q8506	A-6
Q8507	B-6
Q8508	A-6
Integrated Circuit	
IC8504	A-6
IC8505	A-6
Connector	
P8507	B-6
P8506	A-6

ADDRESS INFORMATION
Ⓒ... COMPONENT SIDE
Ⓕ... FOIL SIDE


PB C1
CNR IN
YNR
TP2
CHROMA BALANCE
CHROMA PHASE
Y LEVEL
COLOUR
Y/C DELAY
PB C2
1H DLY LEVEL
A
B
C
D
V2
VIDEO 2
1
2
3
DLY BALANCE
TEST ROUND
P.B PHASE
VIDEO 2 CIRCUIT
VJB03878
REF.NO.8000 SERIES
VEP03878
(FOIL SIDE)
CCD UNIT C.B.A.
(VEP03880A)
VEP03880
(FOIL SIDE)
2
3
4
5
6

AUDIO (2) C.B.A. (VEP04327C)


AUDIO (2) C.B.A. (VEP04327C)
CH2 NOR EE
CH1 NOR EE
CH2 REC CUR
CH1 REC CUR
AHSW
PAL AHSW
CH2 FO
CH2 DEV
CH2 HF EE
CH1 HF EE
CH1 DEV
CH2 MT ADJ
GND
CH2 PAL FO
CH1 FO
CH1 PAL FO
VR502
VR501
VR709
VR706
VR708
VR707
VR712
VR711
VR710
VR702
VR701
VR704
VR504
VR703
VR705
TP708
TP704
TP706
TP705
TP707
TP710
TP701
TP711
TP709
TP703
TP702
IC703
IC701
IC702
IC504
IC505
IC503
IC501
IC502
IC513
IC511
IC507
IC508
P4701
P4501
FL701
FL702
FL703
VJB04327 ①
VEP04327
REF NO.4000 SERIES
AUDIO2 CIRCUIT
DIP
1B
1A
32B
32A
5
10
15
20
25
30
B
A
1
2
3
4
5



AUDIO (2) C.B.A.

Transistor & Resistor		
Q4501	A-4	Ⓕ
Q4502	A-5	Ⓕ
Q4503	A-5	Ⓕ
Q4504	A-5	Ⓕ
Q4505	A-5	Ⓕ
Q4506	A-5	Ⓕ
Q4507	A-4	Ⓕ
Q4508	A-4	Ⓕ
Q4509	B-5	Ⓕ
Q4510	A-4	Ⓕ
Q4511	A-4	Ⓕ
Q4701	B-5	Ⓕ
Q4702	B-5	Ⓕ
Q4703	B-4	Ⓕ
Q4704	B-2	Ⓕ
Q4705	B-2	Ⓕ
Q4706	B-4	Ⓕ
Q4707	B-2	Ⓕ

Transistor & Resistor		
QR4501	A-2	Ⓕ
QR4502	A-2	Ⓕ
QR4503	B-5	Ⓕ
QR4504	B-5	Ⓕ
QR4505	B-5	Ⓕ
QR4701	B-3.	Ⓕ
QR4702	B-1	Ⓕ
QR4703	B-2	Ⓕ
QR4704	B-1	Ⓕ
QR4705	B-1	Ⓕ
QR4706	A-4	Ⓕ
QR4707	B-2	Ⓕ
QR4708	B-2	Ⓕ
QR4709	B-2	Ⓕ
QR4710	B-2	Ⓕ
QR4711	B-2	Ⓕ
QR4712	B-2	Ⓕ
QR4713	B-2	Ⓕ
QR4714	B-2	Ⓕ
QR4715	B-1	Ⓕ

Integrated Circuit		
IC4501	A-1	Ⓕ
IC4502	A-1	Ⓕ
IC4503	A-1	Ⓕ
IC4504	A-1	Ⓕ
IC4505	B-1	Ⓕ
IC4506	A-5	Ⓕ
IC4507	A-5	Ⓕ
IC4508	A-5	Ⓕ
IC4509	B-5	Ⓕ
IC4510	B-5	Ⓕ
IC4511	B-5	Ⓕ
IC4512	B-5	Ⓕ
IC4513	B-4	Ⓕ
IC4514	B-5	Ⓕ
IC4701	B-4	Ⓕ
IC4702	A-3	Ⓕ
IC4703	B-2	Ⓕ

Test Point		
TP4701	B-4	Ⓕ
TP4702	B-5	Ⓕ
TP4703	B-5	Ⓕ
TP4704	B-1	Ⓕ
TP4705	B-3	Ⓕ
TP4706	B-2	Ⓕ
TP4707	B-3	Ⓕ
TP4708	B-1	Ⓕ
TP4709	B-2	Ⓕ
TP4710	B-3	Ⓕ
TP4711	B-5	Ⓕ

Adjustment		
VR4501	B-1	Ⓕ
VR4502	B-1	Ⓕ
VR4503	B-5	Ⓕ
VR4504	B-5	Ⓕ
VR4701	B-4	Ⓕ
VR4702	B-4	Ⓕ
VR4703	B-4	Ⓕ
VR4704	B-4	Ⓕ
VR4705	A-4	Ⓕ
VR4706	B-2	Ⓕ
VR4707	B-2	Ⓕ
VR4708	B-2	Ⓕ
VR4709	B-2	Ⓕ
VR4710	B-3	Ⓕ
VR4711	B-3	Ⓕ
VR4712	B-3	Ⓕ

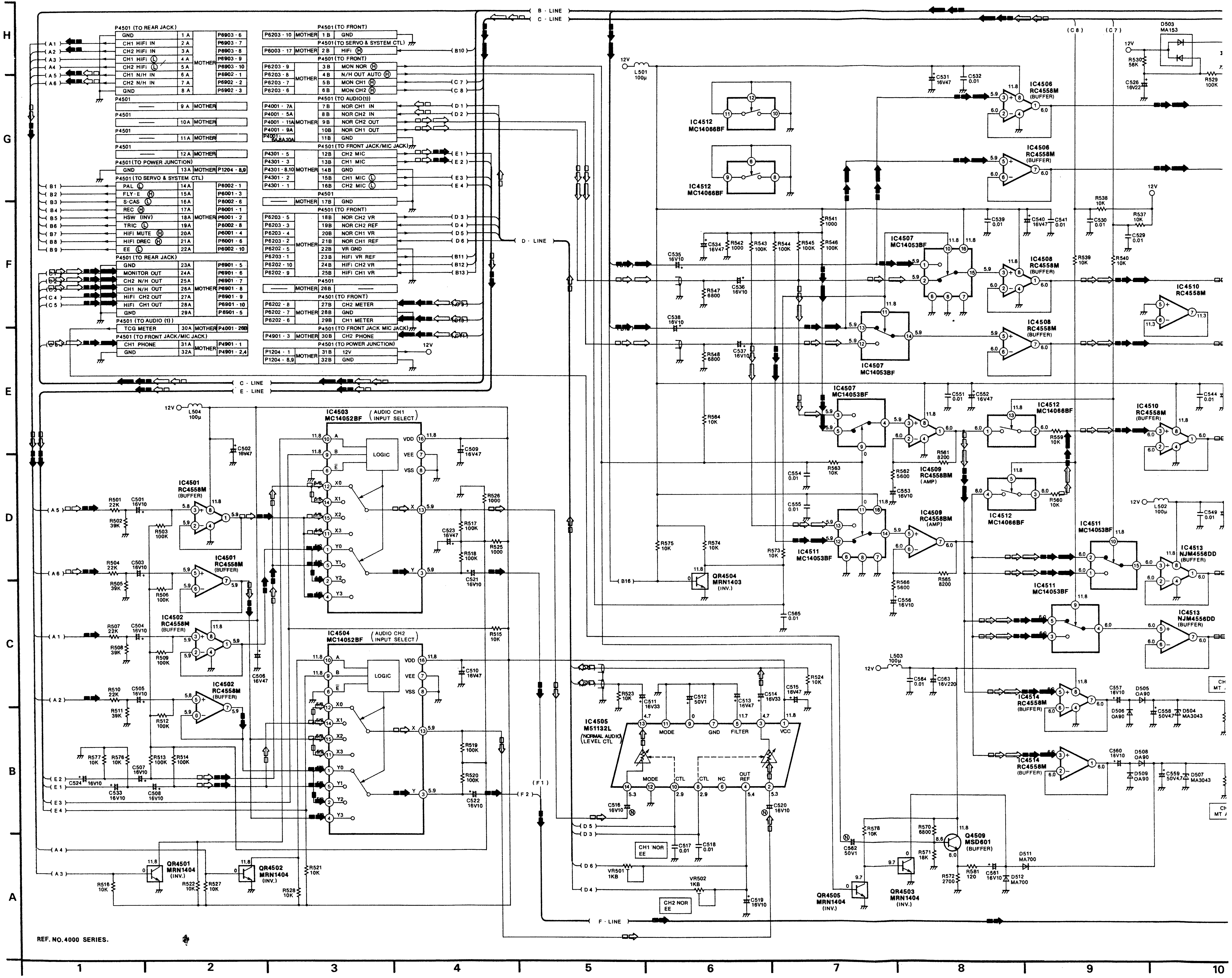
Connector		
P4501	A-3	Ⓕ
P4701	B-2	Ⓕ

ADDRESS INFORMATION
Ⓒ... COMPONENT SIDE
Ⓕ... FOIL SIDE

AUDIO (2) SCHEMATIC DIAGRAM

Hi-Fi AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

Hi-Fi AUDIO MAIN SIGNAL PATH IN REC MODE

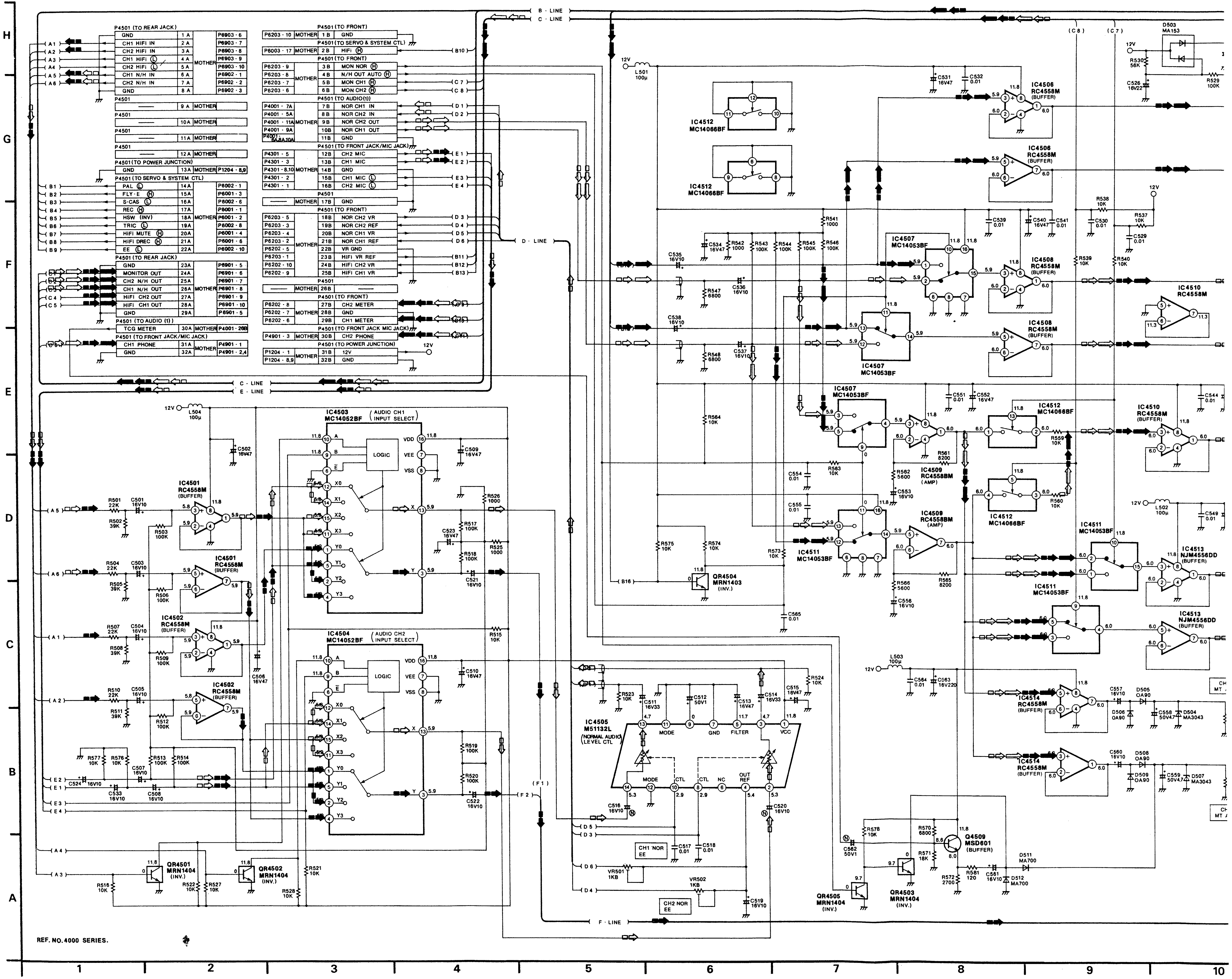


H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
P4501 (TO REAR JACK)
GND 1A P6903-6
CH1 HIFI IN 2A P6903-7
CH2 HIFI IN 3A P6903-8
CH1 HIFI Ⓛ 4A P6903-9
CH2 HIFI Ⓛ 5A P6903-10
CH1 N/H IN 6A P6902-1
CH2 N/H IN 7A P6902-2
GND 8A P6902-3
MOTHER
9A MOTHER
10A MOTHER
11A MOTHER
12A MOTHER
P4501 (TO POWER JUNCTION)
GND 13A MOTHER P1204-8,9
P4501 (TO SERVO & SYSTEM CTL)
PAL Ⓛ 14A P6002-1
FLY-E Ⓗ 15A P6001-3
S-CAS Ⓛ 16A P6002-6
REC Ⓗ 17A P6001-1
HSW (INV) 18A P6001-2
TRIC Ⓛ 19A P6002-8
HIFI MUTE Ⓗ 20A P6001-4
HIFI DREC Ⓗ 21A P6001-6
EE Ⓛ 22A P6002-10
P4501 (TO REAR JACK)
GND 23A P6901-5
MONITOR OUT 24A P6901-6
CH2 N/H OUT 25A P6901-7
CH1 N/H OUT 26A P6901-8
HIFI CH2 OUT 27A P6901-9
HIFI CH1 OUT 28A P6901-10
GND 29A P6901-5
P4501 (TO AUDIO (1))
TCG METER 30A MOTHER P4001-26B
P4501 (TO FRONT JACK/MIC JACK)
CH1 PHONE 31A P4901-1
GND 32A P4901-2,4
P4501 (TO FRONT)
P6203-10 MOTHER 1B GND
P4501 (TO SERVO & SYSTEM CTL)
P6003-17 MOTHER 2B HIFI Ⓗ
P4501 (TO FRONT)
P6203-9 3B MON NOR Ⓗ
P6203-8 4B N/H OUT AUTO Ⓗ
P6203-7 5B MON CH1 Ⓗ
P6203-6 6B MON CH2 Ⓗ
P4501 (TO AUDIO (1))
P4001-7A 7B NOR CH1 IN
P4001-5A 8B NOR CH2 IN
P4001-11A 9B NOR CH2 OUT
P4001-9A 10B NOR CH1 OUT
P4001-8A,9A,10A 11B GND
P4501 (TO FRONT JACK/MIC JACK)
P4301-5 12B CH2 MIC
P4301-3 13B CH1 MIC
P4301-8,10 14B GND
P4301-2 15B CH1 MIC Ⓛ
P4301-1 16B CH2 MIC Ⓛ
P4501
MOTHER 17B GND
P4501 (TO FRONT)
P6203-5 18B NOR CH2 VR
P6203-3 19B NOR CH2 REF
P6203-4 20B NOR CH1 VR
P6203-2 21B NOR CH1 REF
P6202-5 22B VR GND
P6203-1 23B HIFI VR REF
P6202-10 24B HIFI CH2 VR
P6202-9 25B HIFI CH1 VR
P4501
MOTHER 26B
P4501 (TO FRONT)
P6202-8 27B CH2 METER
P6202-7 28B GND
P6202-6 29B CH1 METER
P4501 (TO FRONT JACK MIC JACK)
P4901-3 MOTHER 30B CH2 PHONE
P4501 (TO POWER JUNCTION)
P1204-1 31B 12V
P1204-8,9 32B GND
B-LINE
C-LINE
D-LINE
E-LINE
F-LINE
IC4501 RC4558M (BUFFER)
IC4502 RC4558M (BUFFER)
IC4503 MC14052BF (AUDIO CH1 INPUT SELECT)
IC4504 MC14052BF (AUDIO CH2 INPUT SELECT)
LOGIC
VDD VEE VSS
X0 X1 X2 X3 Y0 Y1 Y2 Y3
IC4505 M51132L (NORMAL AUDIO LEVEL CTL)
MODE GND FILTER VCC CTL NC OUT REF
IC4506 RC4558M (BUFFER)
IC4507 MC14053BF
IC4508 RC4558M (BUFFER)
IC4509 RC4558BM (AMP)
IC4510 RC4558M (BUFFER)
IC4511 MC14053BF
IC4512 MC14066BF
IC4513 NJM4556DD (BUFFER)
IC4514 RC4558M (BUFFER)
QR4501 MRN1404 (INV.)
QR4502 MRN1404 (INV.)
QR4503 MRN1404 (INV.)
QR4504 MRN1403 (INV.)
QR4505 MRN1404 (INV.)
Q4509 MSD601 (BUFFER)
D503 MA153
D504 MA3043
D505 OA90
D506 OA90
D507 MA3043
D508 OA90
D509 OA90
D511 MA700
D512 MA700
L501 100μ
L502 100μ
L503 100μ
L504 100μ
VR501 1KB
VR502 1KB
CH1 NOR EE
CH2 NOR EE
12V
(C 8)
(C 7)
REF. NO. 4000 SERIES.

AUDIO (2) SCHEMATIC DIAGRAM

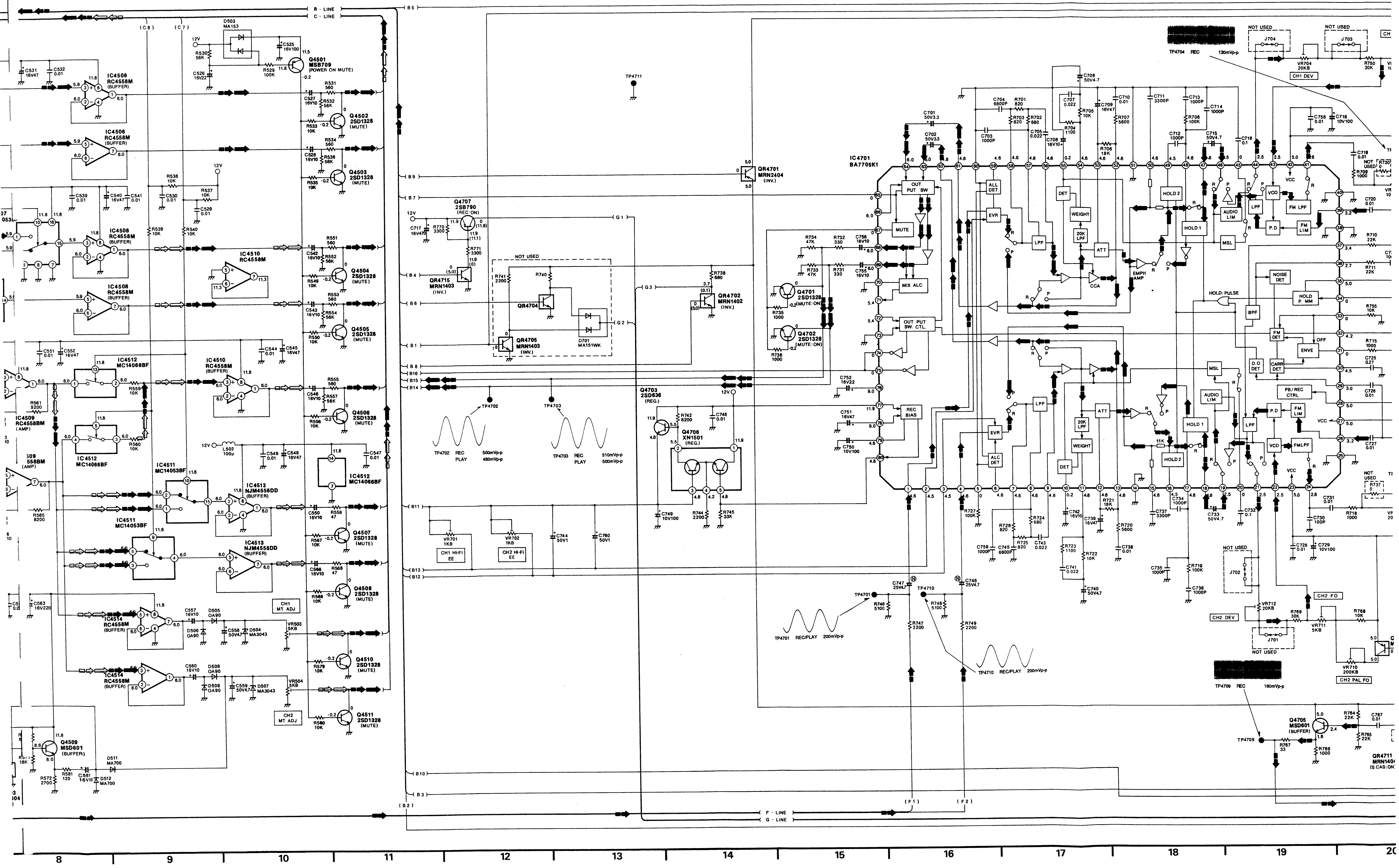
Hi-Fi AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

Hi-Fi AUDIO MAIN SIGNAL PATH IN REC MODE



H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
P4501 (TO REAR JACK)
GND
CH1 HIFI IN
CH2 HIFI IN
CH1 HIFI Ⓛ
CH2 HIFI Ⓛ
CH1 N/H IN
CH2 N/H IN
MOTHER
P4501 (TO POWER JUNCTION)
P4501 (TO SERVO & SYSTEM CTL)
PAL Ⓛ
FLY-E Ⓗ
S-CAS Ⓛ
REC Ⓗ
HSW (INV)
TRIG Ⓛ
HIFI MUTE Ⓗ
HIFI DREC Ⓗ
EE Ⓛ
MONITOR OUT
CH2 N/H OUT
CH1 N/H OUT
HIFI CH2 OUT
HIFI CH1 OUT
P4501 (TO AUDIO (1))
TCG METER
P4501 (TO FRONT JACK/MIC JACK)
CH1 PHONE
P4501 (TO FRONT)
P4501 (TO SERVO & SYSTEM CTL)
HIFI Ⓗ
MON NOR Ⓗ
N/H OUT AUTO Ⓗ
MON CH1 Ⓗ
MON CH2 Ⓗ
P4501 (TO AUDIO(1))
NOR CH1 IN
NOR CH2 IN
NOR CH2 OUT
NOR CH1 OUT
P4501 (TO FRONT JACK/MIC JACK)
CH2 MIC
CH1 MIC
CH1 MIC Ⓛ
CH2 MIC Ⓛ
NOR CH2 VR
NOR CH2 REF
NOR CH1 VR
NOR CH1 REF
VR GND
HIFI VR REF
HIFI CH2 VR
HIFI CH1 VR
CH2 METER
CH1 METER
CH2 PHONE
P4501 (TO POWER JUNCTION)
12V
B - LINE
C - LINE
D - LINE
E - LINE
F - LINE
IC4503 MC14052BF (AUDIO CH1 INPUT SELECT)
IC4504 MC14052BF (AUDIO CH2 INPUT SELECT)
LOGIC
IC4501 RC4558M (BUFFER)
IC4502 RC4558M (BUFFER)
IC4505 M51132L (NORMAL AUDIO LEVEL CTL)
MODE
GND
FILTER
VCC
CTL
NC
OUT REF
QR4501 MRN1404 (INV.)
QR4502 MRN1404 (INV.)
QR4503 MRN1404 (INV.)
QR4504 MRN1403 (INV.)
QR4505 MRN1404 (INV.)
Q4509 MSD601 (BUFFER)
IC4506 RC4558M (BUFFER)
IC4507 MC14053BF
IC4508 RC4558M (BUFFER)
IC4509 RC4558BM (AMP)
IC4510 RC4558M (BUFFER)
IC4511 MC14053BF
IC4512 MC14066BF
IC4513 NJM4556DD (BUFFER)
IC4514 RC4558M (BUFFER)
D503 MA153
D504 MA3043
D505 OA90
D506 OA90
D507 MA3043
D508 OA90
D509 OA90
D511 MA700
D512 MA700
VR501 1KB
VR502 1KB
CH1 NOR EE
CH2 NOR EE
L501 100μ
L502 100μ
L503 100μ
L504 100μ
REF. NO. 4000 SERIES.

AUDIO MAIN SIGNAL PATH IN REC MODE ⇦ NORMAL AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE ⇦□ NORMAL AUDIO MAIN SIGNAL PATH IN REC MODE


B - LINE
C - LINE
D503 MA153
Q4501 MSB709 (POWER ON MUTE)
IC4506 RC4558M (BUFFER)
Q4502 2SD1328 (MUTE)
Q4503 2SD1328 (MUTE)
IC4508 RC4558M (BUFFER)
IC4510 RC4558M
Q4504 2SD1328 (MUTE)
Q4505 2SD1328 (MUTE)
IC4512 MC14066BF
IC4510 RC4558M (BUFFER)
Q4506 2SD1328 (MUTE)
IC4509 RC4558BM (AMP)
IC4511 MC14053BF
IC4513 NJM4556DD (BUFFER)
Q4507 2SD1328 (MUTE)
Q4508 2SD1328 (MUTE)
IC4514 RC4558M (BUFFER)
CH1 MT ADJ
CH2 MT ADJ
Q4510 2SD1328 (MUTE)
Q4511 2SD1328 (MUTE)
Q4509 MSD601 (BUFFER)
TP4711
Q4707 2SB790 (REC ON)
QR4715 MRN1403 (INV.)
NOT USED
QR4704
QR4705 MRN1403 (INV.)
D701 MA151WK
QR4701 MRN2404 (INV.)
QR4702 MRN1402 (INV.)
Q4701 2SD1328 (MUTE: ON)
Q4702 2SD1328 (MUTE: ON)
Q4703 2SD636 (REG.)
Q4706 XN1501 (REG.)
TP4702 REC PLAY 500mVp-p 480mVp-p
TP4703 REC PLAY 510mVp-p 500mVp-p
VR701 1KB CH1 Hi-Fi EE
VR702 1KB CH2 Hi-Fi EE
IC4701 BA7705K1
OUT PUT SW
MUTE
MIX ALC
OUT PUT SW. CTL.
REC BIAS
ALL DET
EVR
ALC DET
LPF
DET
WEIGHT
20K LPF
ATT
CCA
EMPH AMP
HOLD 2
HOLD 1
AUDIO LIM
MSL
VCO
FM LPF
P.D
FM LIM
NOISE DET
HOLD P. MM
BPF
FM DET
ENVE
D.O DET
CARR DET
PB/REC CTRL
FMLPF
TP4704 REC 130mVp-p
J704
J703
VR704 20KB
CH1 DEV
TP4701 REC/PLAY 200mVp-p
TP4710 REC/PLAY 200mVp-p
J702
VR712 20KB
CH2 FO
CH2 DEV
J701
VR711 5KB
VR710 200KB
CH2 PAL FO
TP4709 REC 160mVp-p
Q4705 MSD601 (BUFFER)
QR4711 MRN140 (S CAS:ON)
F - LINE
G - LINE
8
9
10
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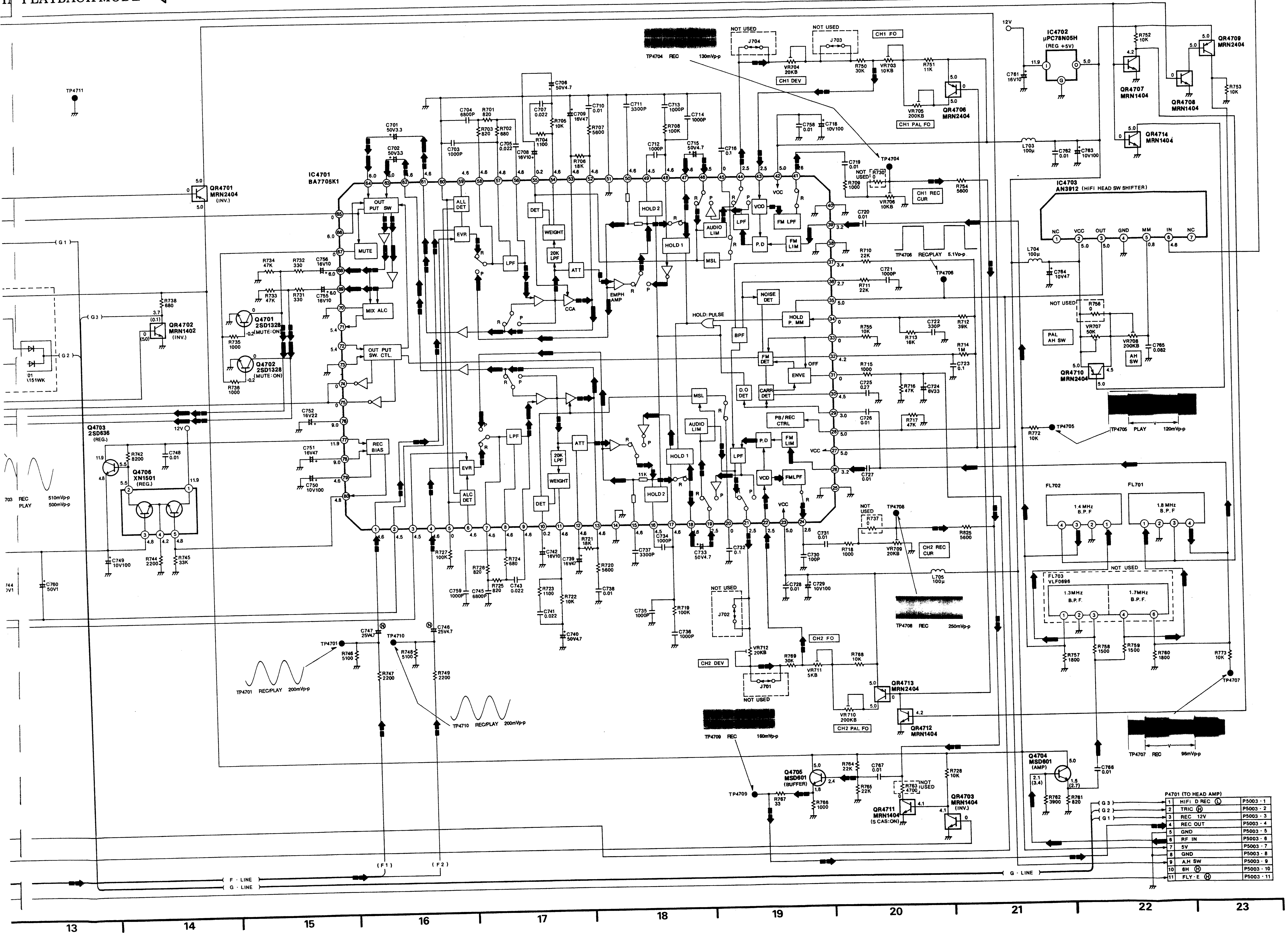
12
13
14
15
16
17
18
19
20

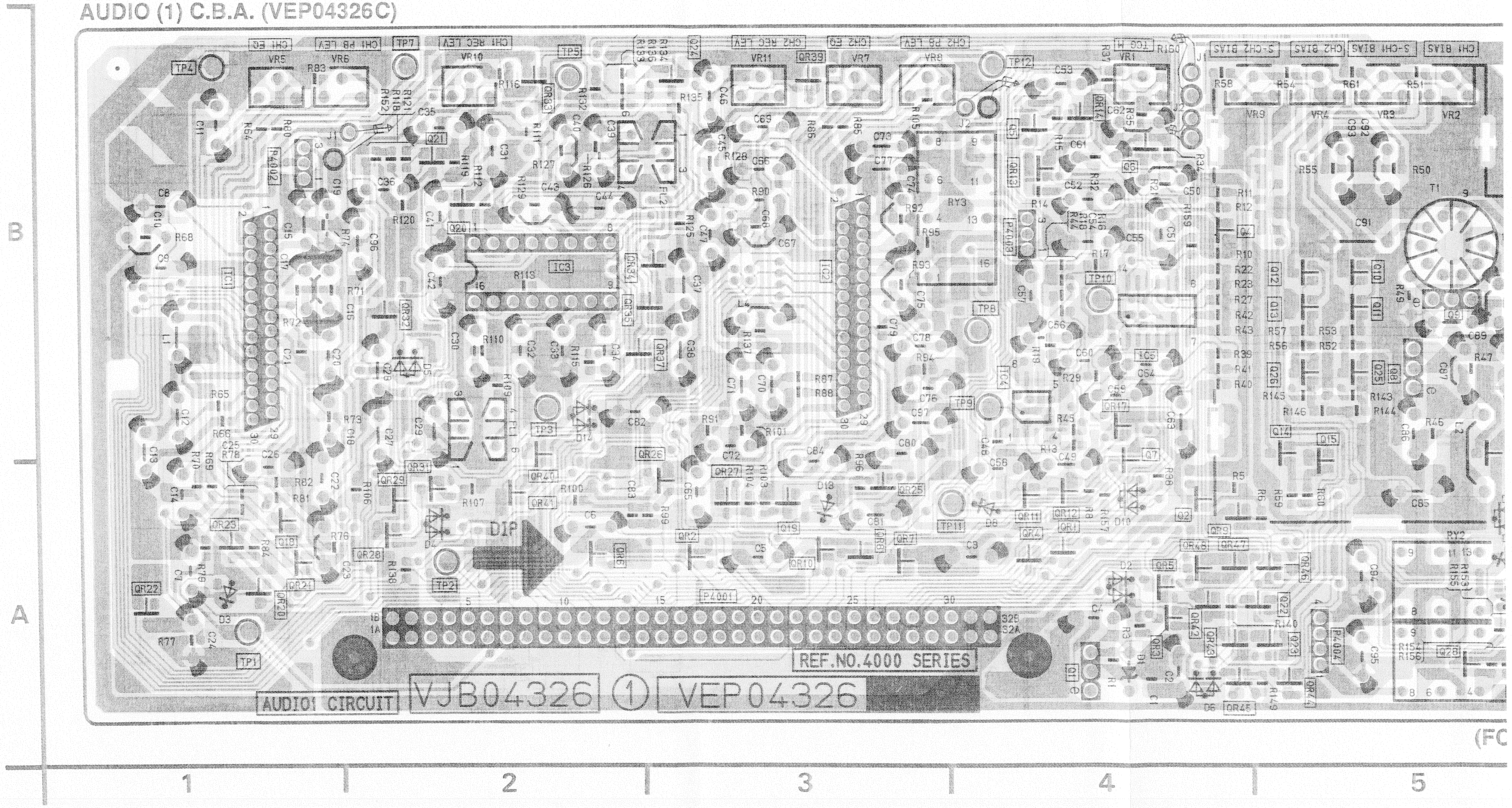
II PLAYBACK MODE ⇦□ NORMAL AUDIO MAIN SIGNAL PATH IN REC MODE

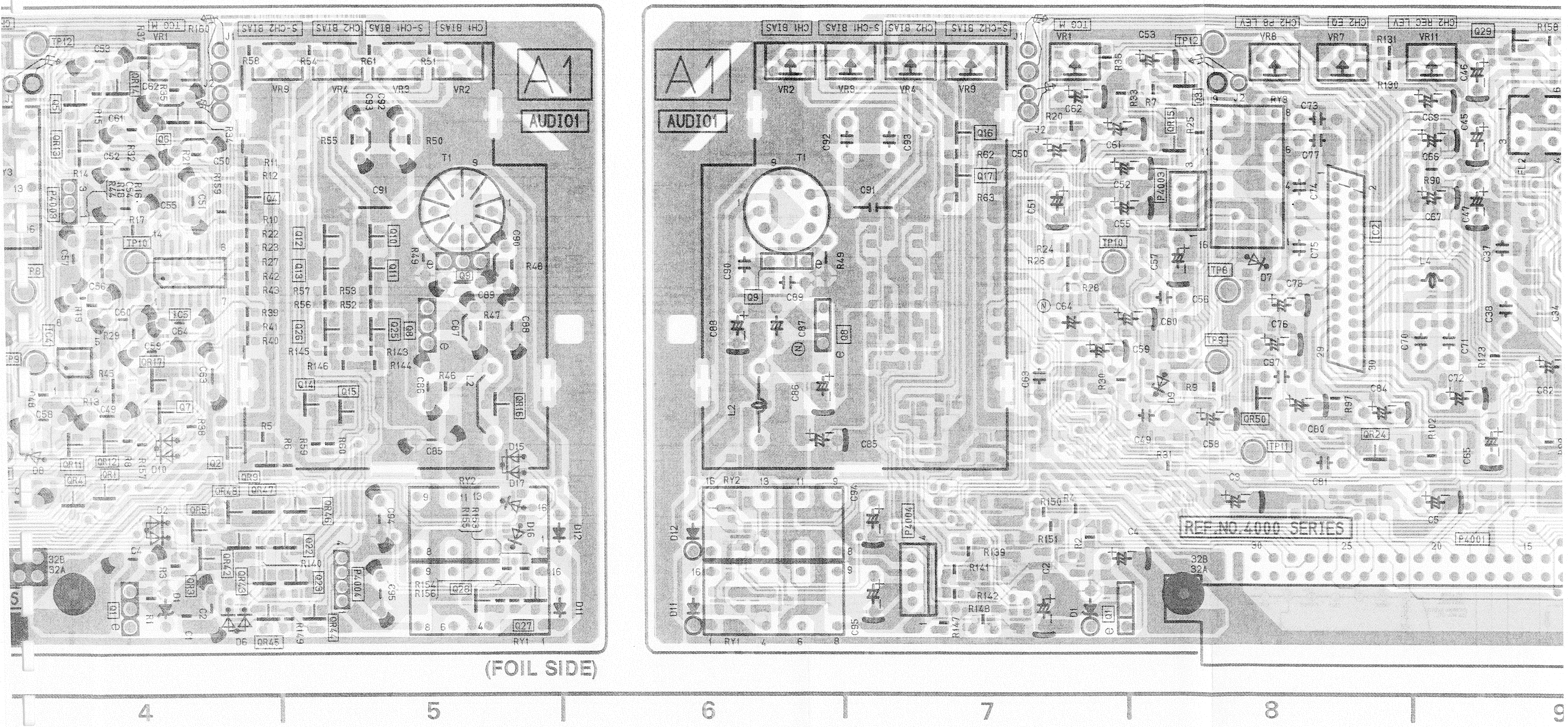

IC4701 BA7705K1
IC4702 μPC78N05H (REG +5V)
IC4703 AN3912 (HIFI HEAD SW SHIFTER)
QR4701 MRN2404 (INV.)
QR4702 MRN1402 (INV.)
Q4701 2SD1328 (MUTE:ON)
Q4702 2SD1328 (MUTE:ON)
Q4703 2SD636 (REG.)
Q4706 XN1501 (REG.)
Q4704 MSD601 (AMP)
Q4705 MSD601 (BUFFER)
QR4703 MRN1404 (INV.)
QR4706 MRN2404
QR4707 MRN1404
QR4708 MRN1404
QR4709 MRN2404
QR4710 MRN2404
QR4711 MRN1404 (S CAS:ON)
QR4712 MRN1404
QR4713 MRN2404
QR4714 MRN1404
OUT PUT SW
MUTE
MIX ALC
OUT PUT SW. CTL.
REC BIAS
ALL DET
EVR
ALC DET
DET
WEIGHT
20K LPF
ATT
LPF
CCA
EMPH AMP
HOLD 1
HOLD 2
MSL
AUDIO LIM
VCO
P.D
FM LPF
FM LIM
NOISE DET
HOLD P. MM
BPF
FM DET
ENVE
D.O DET
CARR DET
PB/REC CTRL
HOLD: PULSE
VCC
NC
OUT
GND
MM
IN
PAL AH SW
AH SW
FL702 1.4 MHz B.P.F
FL701 1.8 MHz B.P.F
FL703 VLF0696 1.3MHz B.P.F. 1.7MHz B.P.F.
NOT USED
J701
J702
J703
J704
CH1 FO
CH1 DEV
CH1 PAL FO
CH1 REC CUR
CH2 FO
CH2 DEV
CH2 PAL FO
CH2 REC CUR
VR703 10KB
VR704 20KB
VR705 200KB
VR706 10KB
VR707 50K
VR708 200KB
VR709 20KB
VR710 200KB
VR711 5KB
VR712 20KB
L703 100μ
L704 100μ
L705 100μ
TP4701 REC/PLAY 200mVp-p
TP4704 REC 130mVp-p
TP4705 PLAY 120mVp-p
TP4706 REC/PLAY 5.1Vp-p
TP4707 REC 96mVp-p
TP4708 REC 250mVp-p
TP4709 REC 160mVp-p
TP4710 REC/PLAY 200mVp-p
TP4711
703 REC 510mVp-p PLAY 500mVp-p
(G 1)
(G 2)
(G 3)
(F 1)
(F 2)
F - LINE
G - LINE
12V
13
14
15
16
17
18
19
20
21
22
23

P4701 (TO HEAD AMP)

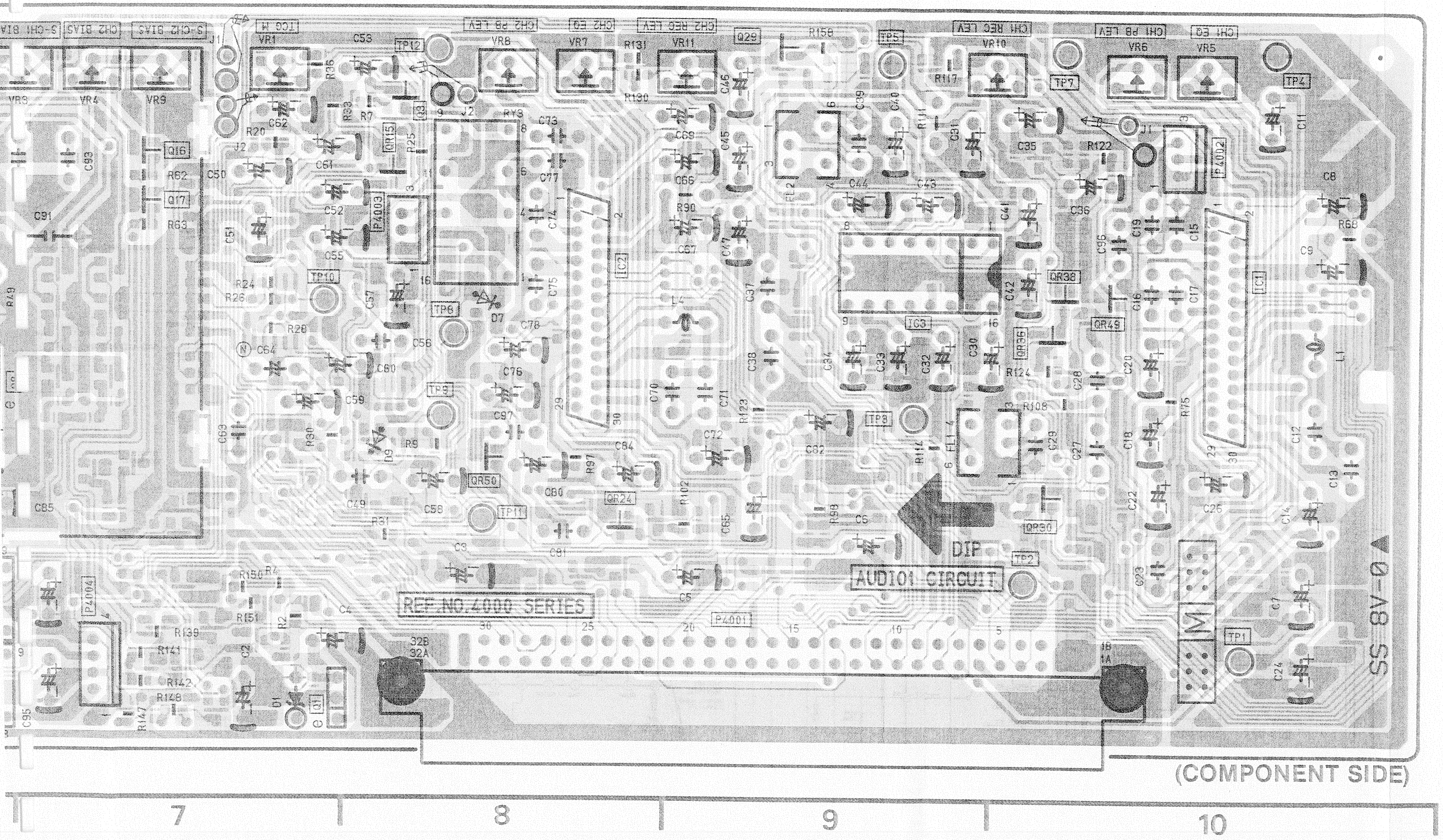
1	HIFi D REC Ⓛ	P5003 · 1
2	TRIC Ⓗ	P5003 · 2
3	REC 12V	P5003 · 3
4	REC OUT	P5003 · 4
5	GND	P5003 · 5
6	RF IN	P5003 · 6
7	5V	P5003 · 7
8	GND	P5003 · 8
9	A.H SW	P5003 · 9
10	6H Ⓗ	P5003 · 10
11	FLY · E Ⓗ	P5003 · 11

AUDIO (1) C.B.A. (VEP04326C)


AUDIO (1) C.B.A. (VEP04326C)
CH1 EQ
CH1 PB LEV
CH1 REC LEV
CH2 REC LEV
CH2 EQ
CH2 PB LEV
TOG M
S-CH2 BIAS
CH2 BIAS
S-CH1 BIAS
CH1 BIAS
VR5
VR6
VR10
VR11
VR7
VR8
VR1
VR9
VR4
VR3
VR2
IC1
IC2
IC3
IC4
IC5
RY3
RY2
T1
TP1
TP2
TP3
TP4
TP5
TP7
TP8
TP9
TP10
TP11
TP12
P4001
P4002
P4003
P4004
DIP
REF.NO.4000 SERIES
AUDIO1 CIRCUIT
VJB04326
①
VEP04326
(FC
B
A
1
2
3
4
5


A1
AUDIO1
CH1 BIAS
S-CH1 BIAS
CH2 BIAS
S-CH2 BIAS
TCG M
CH2 PB LEV
CH2 EQ
CH2 REC LEV
REF NO.4000 SERIES
RY1
RY2
T1
IC2
4
5
6
7
8
9

(FOIL SIDE)


S-CH1 BIAS
CH2 BIAS
S-CH2 BIAS
TCG M
CH2 PB LEV
CH2 EQ
CH2 REC LEV
CH1 REC LEV
CH1 PB LEV
CH1 EQ
VR1
VR3
VR4
VR5
VR6
VR7
VR8
VR9
VR10
VR11
Q16
Q17
Q28
QR15
QR24
QR30
QR36
QR38
QR49
QR50
IC1
IC2
IC3
RY3
FL1
FL2
D7
D9
L1
L4
J1
J2
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP9
TP10
TP11
TP12
P4001
P4002
P4003
P4004
DIP
AUDIO1 CIRCUIT
REF.NO.4000 SERIES
SS 8V-0
32B
32A
7
8
9
10

(COMPONENT SIDE)

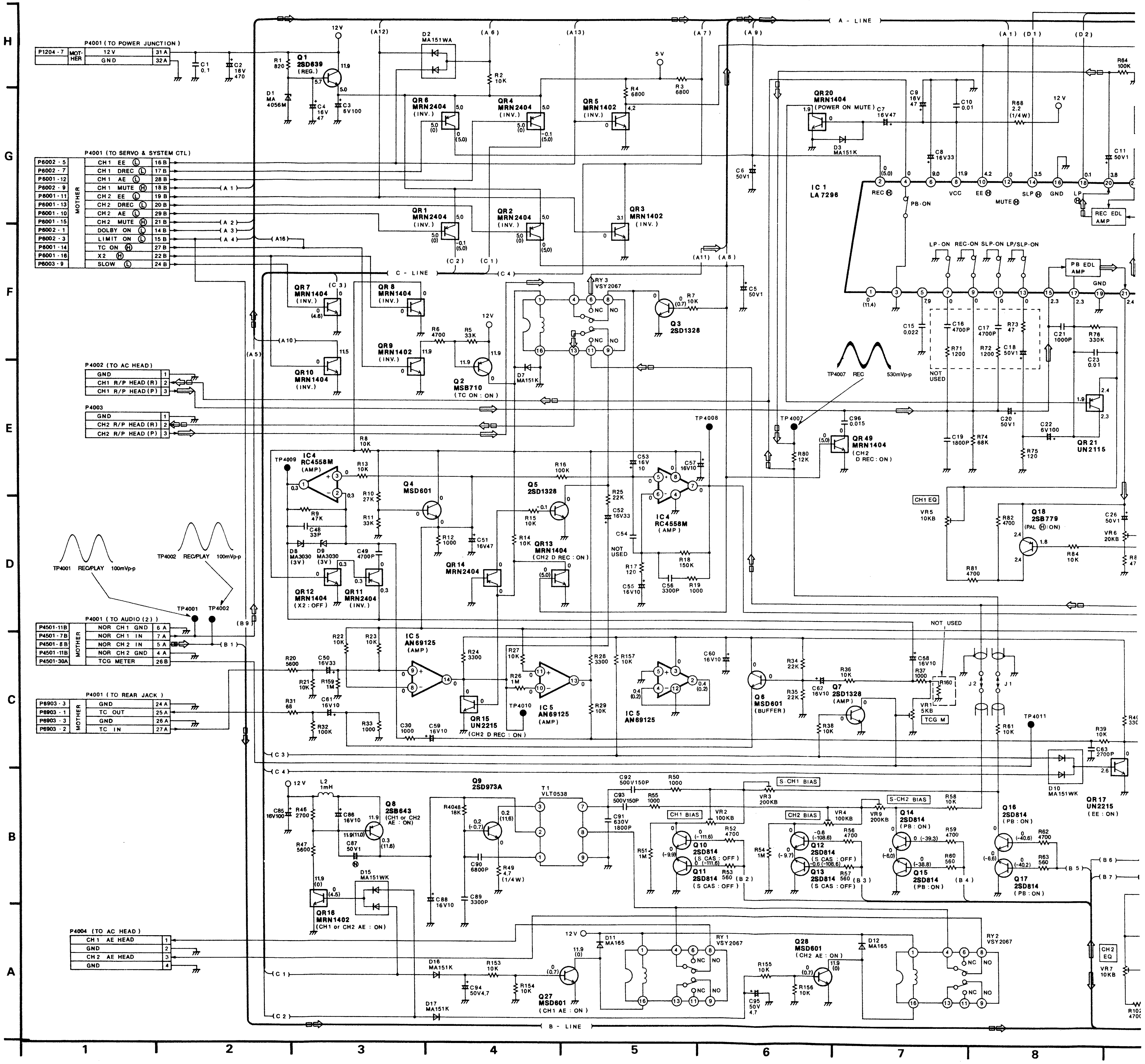
AUDIO (1) C.B.A.		
Transistor		
Q4001	A-8	©
Q4001	A-4	Ⓕ
Q4002	A-4	Ⓕ
Q4003	B-8	©
Q4004	B-4	Ⓕ
Q4005	B-4	Ⓕ
Q4006	B-4	Ⓕ
Q4007	A-4	Ⓕ
Q4008	B-7	©
Q4008	B-5	Ⓕ
Q4009	B-6	©
Q4009	B-5	Ⓕ
Q4010	B-5	Ⓕ
Q4011	B-5	Ⓕ
Q4012	B-5	Ⓕ
Q4013	B-5	Ⓕ
Q4014	B-5	Ⓕ
Q4015	B-5	Ⓕ
Q4016	B-7	©
Q4017	B-7	©
Q4018	A-1	Ⓕ
Q4019	A-3	Ⓕ
Q4020	B-2	Ⓕ
Q4021	B-2	Ⓕ
Q4022	A-5	Ⓕ
Q4023	A-5	Ⓕ
Q4024	B-3	Ⓕ
Q4025	B-5	Ⓕ
Q4026	B-5	Ⓕ
Q4027	A-5	Ⓕ
Q4028	A-5	Ⓕ
Q4029	B-9	©
Transistor & Resistor		
QR4001	A-4	Ⓕ
QR4002	A-3	Ⓕ
QR4003	A-4	Ⓕ
QR4004	A-4	Ⓕ
QR4005	A-4	Ⓕ
QR4006	A-2	Ⓕ
QR4007	A-3	Ⓕ
QR4008	A-3	Ⓕ
QR4009	A-4	Ⓕ
QR4010	A-3	Ⓕ
QR4011	A-4	Ⓕ
QR4012	A-4	Ⓕ
QR4013	B-4	Ⓕ
QR4014	B-4	Ⓕ
QR4015	B-8	©
QR4016	B-5	Ⓕ
QR4017	B-4	Ⓕ
QR4020	A-1	Ⓕ
QR4021	A-1	Ⓕ
QR4022	A-1	Ⓕ
QR4023	A-1	Ⓕ
QR4024	A-8	©
QR4025	A-3	Ⓕ
QR4026	A-3	Ⓕ
QR4027	A-3	Ⓕ
QR4028	A-2	Ⓕ
QR4029	A-2	Ⓕ
QR4030	A-10	©
QR4031	A-2	Ⓕ
QR4032	B-2	Ⓕ
QR4033	B-2	Ⓕ
QR4034	B-2	Ⓕ
QR4035	B-2	Ⓕ
QR4036	B-10	©
QR4037	B-3	Ⓕ
QR4038	B-10	©
QR4039	B-3	Ⓕ
QR4040	A-2	Ⓕ
QR4041	A-2	Ⓕ
QR4042	A-4	Ⓕ
QR4043	A-4	Ⓕ
QR4044	A-5	Ⓕ
QR4045	A-4	Ⓕ
QR4046	A-5	Ⓕ
QR4047	A-4	Ⓕ
QR4048	A-4	Ⓕ
QR4049	B-10	©
QR4050	A-8	©
Integrated Circuit		
IC4001	B-10	©
IC4001	B-1	Ⓕ
IC4002	B-8	©
IC4002	B-3	Ⓕ
IC4003	B-9	©
IC4003	B-2	Ⓕ
IC4004	B-4	Ⓕ
IC4005	B-4	Ⓕ
Test Point		
TP4001	A-10	©
TP4001	A-1	Ⓕ
TP4002	A-10	©
TP4002	A-2	Ⓕ
TP4003	B-9	©
TP4003	B-2	Ⓕ
TP4004	B-10	©
TP4004	B-1	Ⓕ
TP4005	B-9	©
TP4005	B-2	Ⓕ
TP4007	B-10	©
TP4007	B-2	Ⓕ
TP4008	B-8	©
TP4008	B-4	Ⓕ
TP4009	B-8	©
TP4009	B-4	Ⓕ
TP4010	B-7	©
TP4010	B-4	Ⓕ
TP4011	A-8	©
TP4011	A-4	Ⓕ
TP4012	B-8	©
TP4012	B-4	Ⓕ
Adjustment		
VR4001	B-7	©
VR4001	B-4	Ⓕ
VR4002	B-6	©
VR4002	B-5	Ⓕ
VR4003	B-7	©
VR4003	B-5	Ⓕ
VR4004	B-7	©
VR4004	B-5	Ⓕ
VR4005	B-10	©
VR4005	B-1	Ⓕ
VR4006	B-10	©
VR4006	B-2	Ⓕ
VR4007	B-8	©
VR4007	B-3	Ⓕ
VR4008	B-8	©
VR4008	B-3	Ⓕ
VR4009	B-7	©
VR4009	B-5	Ⓕ
VR4010	B-10	©
VR4010	B-2	Ⓕ
VR4011	B-9	©
VR4011	B-3	Ⓕ
Connector		
P4001	A-9	©
P4001	A-3	Ⓕ
P4002	B-10	©
P4002	B-1	Ⓕ
P4003	B-8	©
P4003	B-4	Ⓕ
P4004	A-7	©
P4004	A-5	Ⓕ

ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

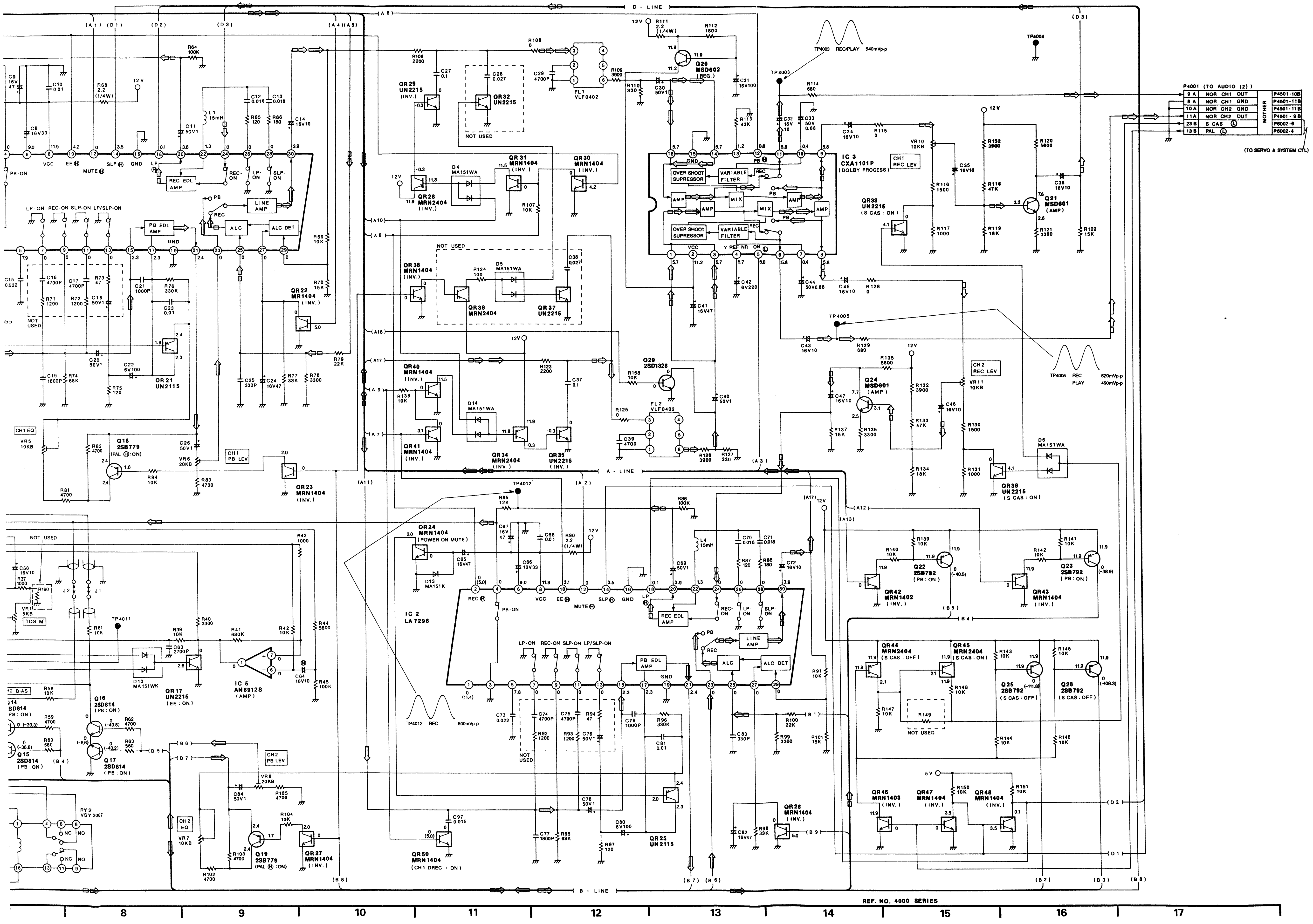
AUDIO (1) SCHEMATIC DIAGRAM

⇦ MAIN SIGNAL PATH IN PLAYBACK MODE

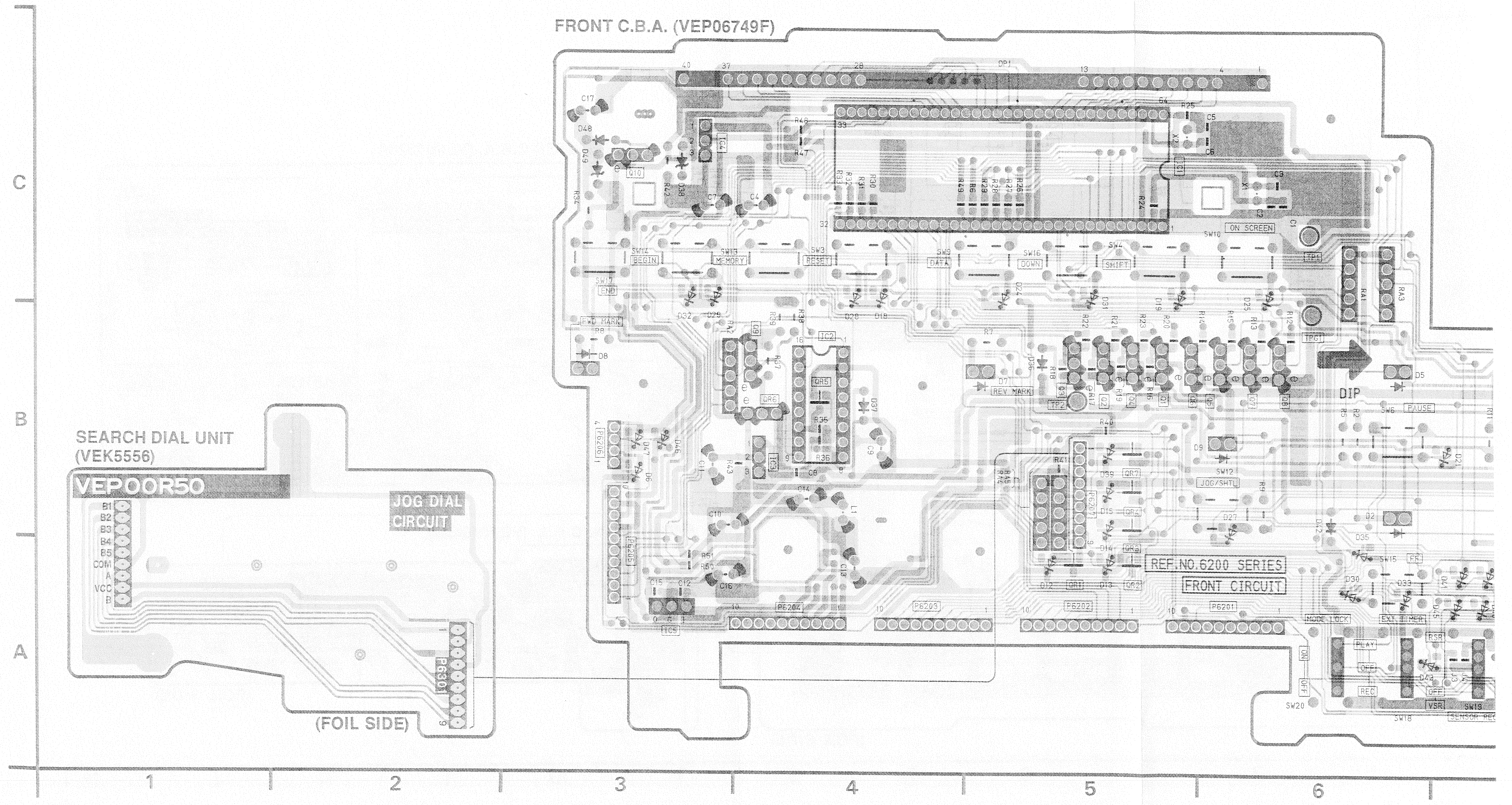
⇦▭ MAIN SIGNAL PATH IN REC MODE

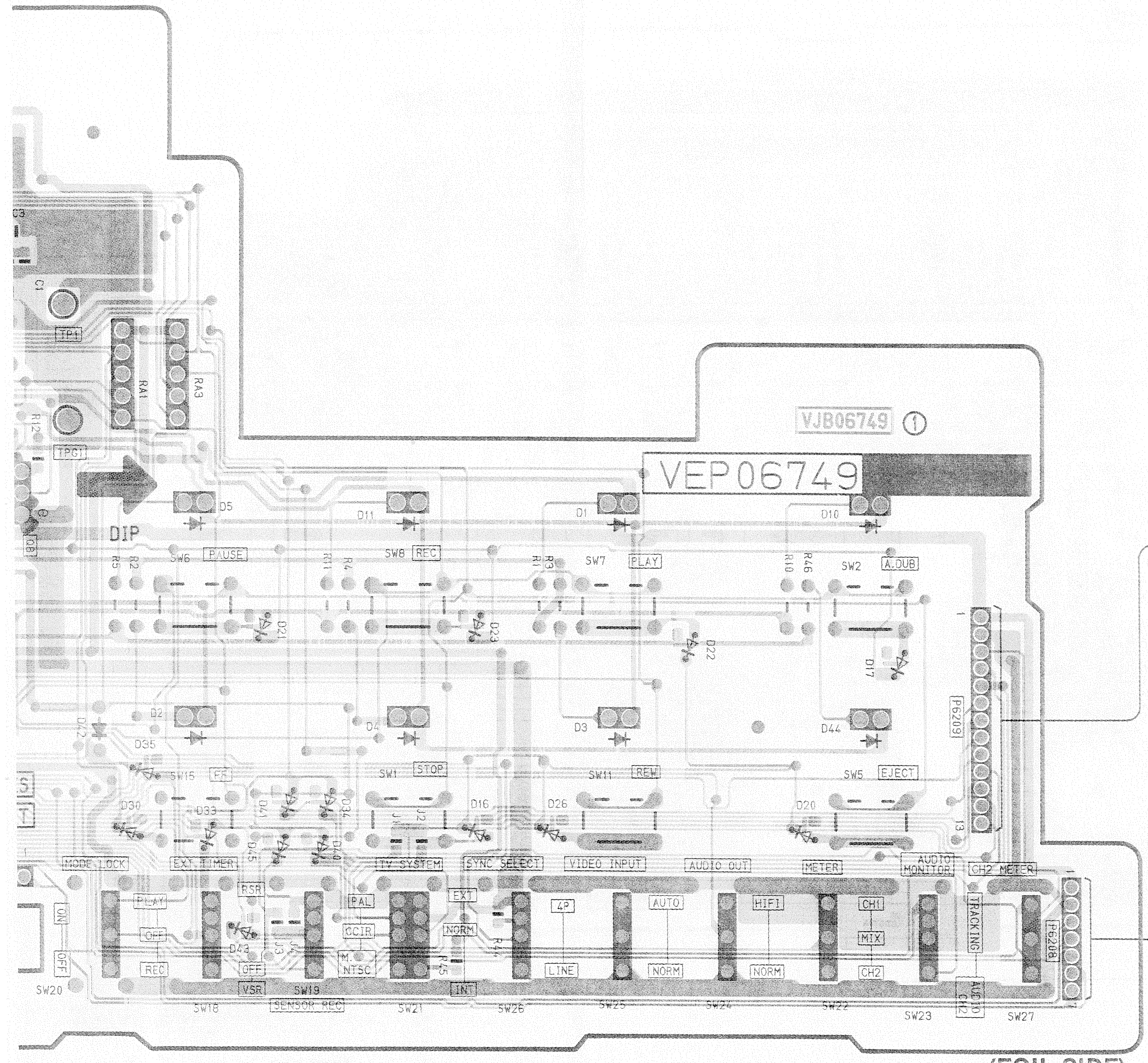

H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
A - LINE
B - LINE
C - LINE
P4001 (TO POWER JUNCTION)
P4001 (TO SERVO & SYSTEM CTL)
P4002 (TO AC HEAD)
P4003
P4001 (TO AUDIO (2))
P4001 (TO REAR JACK)
P4004 (TO AC HEAD)
MOTHER
CH1 EE
CH1 DREC
CH1 AE
CH1 MUTE
CH2 EE
CH2 DREC
CH2 AE
CH2 MUTE
DOLBY ON
LIMIT ON
TC ON
X2
SLOW
CH1 R/P HEAD (R)
CH1 R/P HEAD (P)
CH2 R/P HEAD (R)
CH2 R/P HEAD (P)
NOR CH1 GND
NOR CH1 IN
NOR CH2 IN
NOR CH2 GND
TCG METER
TC OUT
TC IN
CH1 AE HEAD
CH2 AE HEAD
GND
12V
Q1 2SD639 (REG.)
D2 MA151WA
QR6 MRN2404 (INV.)
QR4 MRN2404 (INV.)
QR5 MRN1402 (INV.)
QR1 MRN2404 (INV.)
QR2 MRN2404 (INV.)
QR3 MRN1402 (INV.)
QR20 MRN1404 (POWER ON MUTE)
IC1 LA7296
REC EDL AMP
PB EDL AMP
REC
PB-ON
VCC
EE
MUTE
SLP
LP
LP-ON
REC-ON
SLP-ON
LP/SLP-ON
QR7 MRN1404 (INV.)
QR8 MRN1404 (INV.)
QR9 MRN1402 (INV.)
QR10 MRN1404 (INV.)
Q2 MSB710 (TC ON : ON)
RY3 VSY2067
Q3 2SD1328
TP4007 REC 530mVp-p
NOT USED
QR21 UN2115
QR49 MRN1404 (CH2 D REC : ON)
TP4008
TP4009
IC4 RC4558M (AMP)
Q4 MSD601
Q5 2SD1328
QR13 MRN1404 (CH2 D REC : ON)
QR14 MRN2404
QR12 MRN1404 (X2 : OFF)
QR11 MRN2404 (INV.)
D8 MA3030 (3V)
D9 MA3030 (3V)
TP4001 REC/PLAY 100mVp-p
TP4002 REC/PLAY 100mVp-p
CH1 EQ
Q18 2SB779 (PAL Ⓗ : ON)
IC5 AN69125 (AMP)
QR15 UN2215 (CH2 D REC : ON)
TP4010
Q6 MSD601 (BUFFER)
Q7 2SD1328 (AMP)
TCG M
J2
J1
TP4011
QR17 UN2215 (EE : ON)
D10 MA151WK
Q8 2SB643 (CH1 or CH2 AE : ON)
Q9 2SD973A
T1 VLT0538
S-CH1 BIAS
CH1 BIAS
CH2 BIAS
S-CH2 BIAS
Q10 2SD814 (S CAS : OFF)
Q11 2SD814 (S CAS : OFF)
Q12 2SD814 (S CAS : OFF)
Q13 2SD814 (S CAS : OFF)
Q14 2SD814 (PB : ON)
Q15 2SD814 (PB : ON)
Q16 2SD814 (PB : ON)
Q17 2SD814 (PB : ON)
QR16 MRN1402 (CH1 or CH2 AE : ON)
D15 MA151WK
D11 MA165
RY1 VSY2067
D16 MA151K
D17 MA151K
Q27 MSD601 (CH1 AE : ON)
Q28 MSD601 (CH2 AE : ON)
D12 MA165
RY2 VSY2067
CH2 EQ
VR7 10KB

GNAL PATH IN REC MODE


D - LINE
A - LINE
B - LINE
IC 3
CXA1101P
(DOLBY PROCESS)
IC 2
LA7296
IC 5
AN6912S
(AMP)
OVER SHOOT SUPRESSOR
VARIABLE FILTER
AMP
MIX
REC EDL AMP
PB EDL AMP
LINE AMP
ALC
ALC DET
FL1
VLF0402
FL 2
VLF0402
Q20
MSD602
(REG.)
Q21
MSD601
(AMP)
Q24
MSD601
(AMP)
Q29
2SD1328
Q18
2SB779
(PAL Ⓗ:ON)
Q19
2SB779
(PAL Ⓗ:ON)
Q16
2SD814
(PB:ON)
Q17
2SD814
(PB:ON)
Q15
2SD814
(PB:ON)
Q22
2SB792
(PB:ON)
Q23
2SB792
(PB:ON)
Q25
2SB792
(S CAS:OFF)
Q26
2SB792
(S CAS:OFF)
P4001 (TO AUDIO (2))
NOR CH1 OUT
NOR CH1 GND
NOR CH2 GND
NOR CH2 OUT
S CAS Ⓛ
PAL Ⓛ
MOTHER
P4501-10B
P4501-11B
P4501-11B
P4501-9B
P6002-6
P6002-4
(TO SERVO & SYSTEM CTL)
TP4003 REC/PLAY 540mVp-p
TP4005 REC 520mVp-p
PLAY 490mVp-p
TP4012 REC 600mVp-p
CH1 REC LEV
CH2 REC LEV
CH1 PB LEV
CH2 PB LEV
CH1 EQ
CH2 EQ
NOT USED
RY2
VSY2067
REF. NO. 4000 SERIES
8
9
10
11
12
13
14
15
16
17

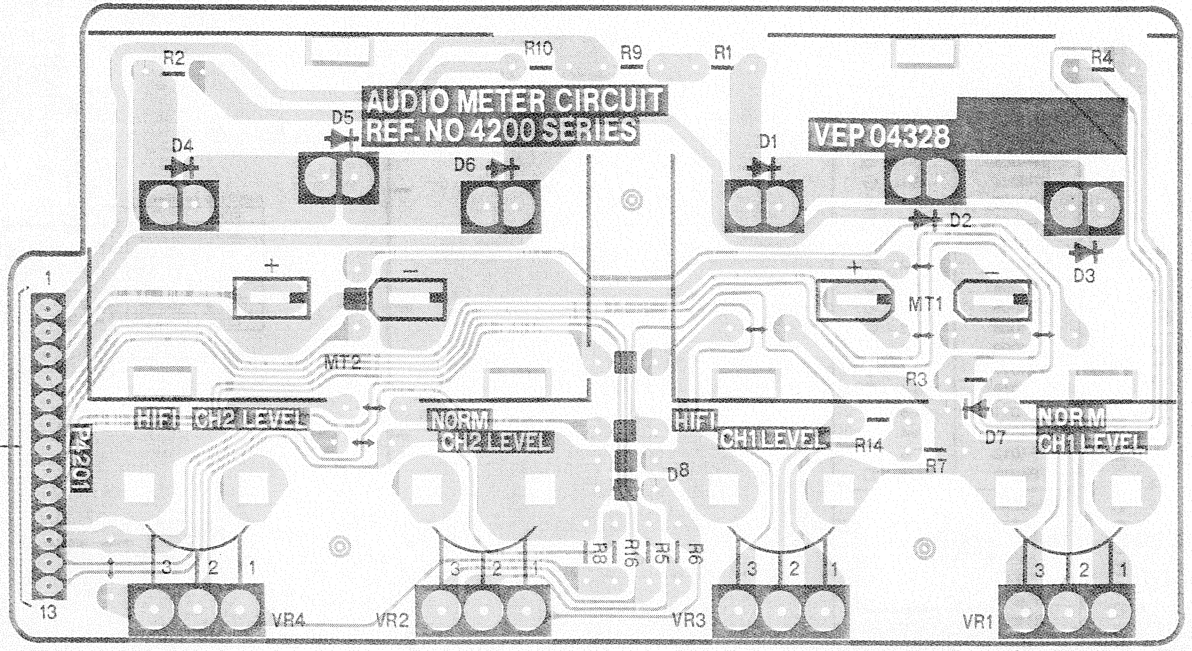
FRONT C.B.A. (VEP06749F), AUDIO METER C.B.A. (VEP04328A), FRONT JACK C.B.A. (VEP04342A) AND SEARCH DIAL UNIT (VEK5556)


FRONT C.B.A. (VEP06749F)
SEARCH DIAL UNIT (VEK5556)
VEP00R50
JOG DIAL CIRCUIT
(FOIL SIDE)
B1
B2
B3
B4
B5
COM
A
VCC
B
P6301
SW12 BEGIN
SW13 MEMORY
SW3 RESET
SW9 DATA
SW16 DOWN
SW4 SHIFT
SW10 ON SCREEN
SW17 END
FWD MARK
REV MARK
DIP
SW6 PAUSE
SW12 JOG/SHTL
REF.NO.6200 SERIES
FRONT CIRCUIT
MODE LOCK
EXT TIMER
PLAY
OFF
REC
RSR
VSR
ON
OFF
SW20
SW18
SW19
SENSOR REC
SW15 F6
P6201
P6202
P6203
P6204
P6205
P6206
P6207
IC1
IC2
IC3
IC4
IC5
TP1
TP2
TP3
RA1
RA3
DP1
C
B
A
1
2
3
4
5
6


VJB06749 ①
VEP06749
DIP
PAUSE
REC
PLAY
A.DUB
STOP
REW
EJECT
FF
MODE LOCK
EXT TIMER
TV SYSTEM
SYNC SELECT
VIDEO INPUT
AUDIO OUT
METER
AUDIO MONITOR
CH2 METER
TRACKING
P6209
P6208
SW20
SW18
SW19
SW21
SW26
SW25
SW24
SW22
SW23
SW27
SENSOR REC
PAL
SECAM
NTSC
NORM
LINE
AUTO
HIFI
CH1
MIX
CH2
4P
EXT
INT

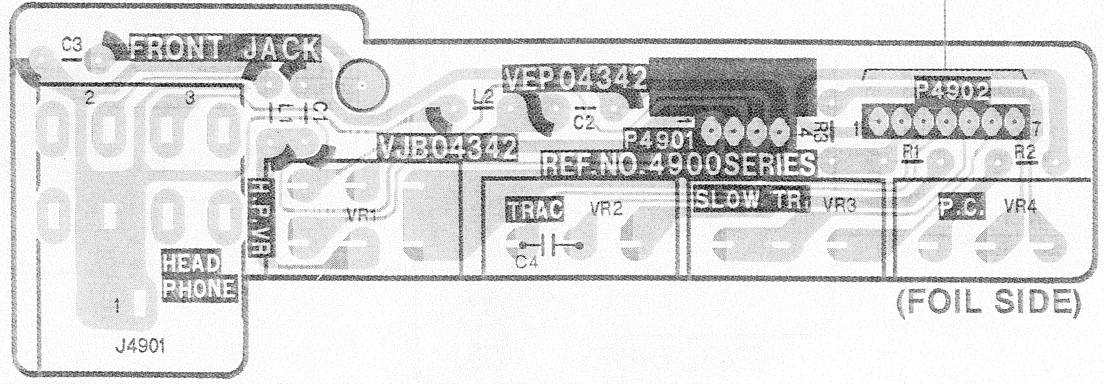
(FOIL SIDE)

AUDIO METER C.B.A. (VEP04328A)


AUDIO METER CIRCUIT
REF. NO 4200 SERIES
VEP04328
P4201
MT2
MT1
HIFI
CH2 LEVEL
NORM
CH2 LEVEL
HIFI
CH1 LEVEL
NORM
CH1 LEVEL
VR4
VR2
VR3
VR1

(FOIL SIDE)

FRONT JACK C.B.A. (VEP04342A)


FRONT JACK
VEP04342
VJB04342
P4901
P4902
REF. NO 4900 SERIES
H.P.VR
HEAD PHONE
J4901
TRAC
SLOW TR
P.C.
VR1
VR2
VR3
VR4

(FOIL SIDE)

6 7 8 9 10 11 12

FRONT SCHEMATIC DIAGRAM

FRONT C.B.A.	
Transistor	
Q6201	B-5 Ⓕ
Q6202	B-5 Ⓕ
Q6203	B-5 Ⓕ
Q6204	B-5 Ⓕ
Q6205	B-6 Ⓕ
Q6206	B-5 Ⓕ
Q6207	B-6 Ⓕ
Q6208	B-6 Ⓕ
Q6209	B-4 Ⓕ
Q6210	C-3 Ⓕ
Transistor & Resistor	
QR6201	A-5 Ⓕ
QR6202	A-5 Ⓕ
QR6203	A-5 Ⓕ
QR6204	A-5 Ⓕ
QR6205	B-4 Ⓕ
QR6206	B-4 Ⓕ
QR6207	B-5 Ⓕ
Integrated Circuit	
IC6201	C-5 Ⓕ
IC6202	B-4 Ⓕ
IC6203	B-4 Ⓕ
IC6204	C-3 Ⓕ
IC6205	A-3 Ⓕ
Test Point	
TP6201	C-6 Ⓕ
TP6202	B-5 Ⓕ
TPG6201	B-6 Ⓕ
Connector	
P6201	A-6 Ⓕ
P6202	A-5 Ⓕ
P6203	A-4 Ⓕ
P6204	A-4 Ⓕ
P6205	A-3 Ⓕ
P6206	B-3 Ⓕ
P6207	A-5 Ⓕ
P6208	B-9 Ⓕ
P6209	B-9 Ⓕ
P6301	A-2 Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

AUDIO METER C.B.A.	
Adjustment	
VR4201	B-12 Ⓕ
VR4202	B-10 Ⓕ
VR4203	B-11 Ⓕ
VR4204	B-10 Ⓕ
Connector	
P4201	B-10 Ⓕ

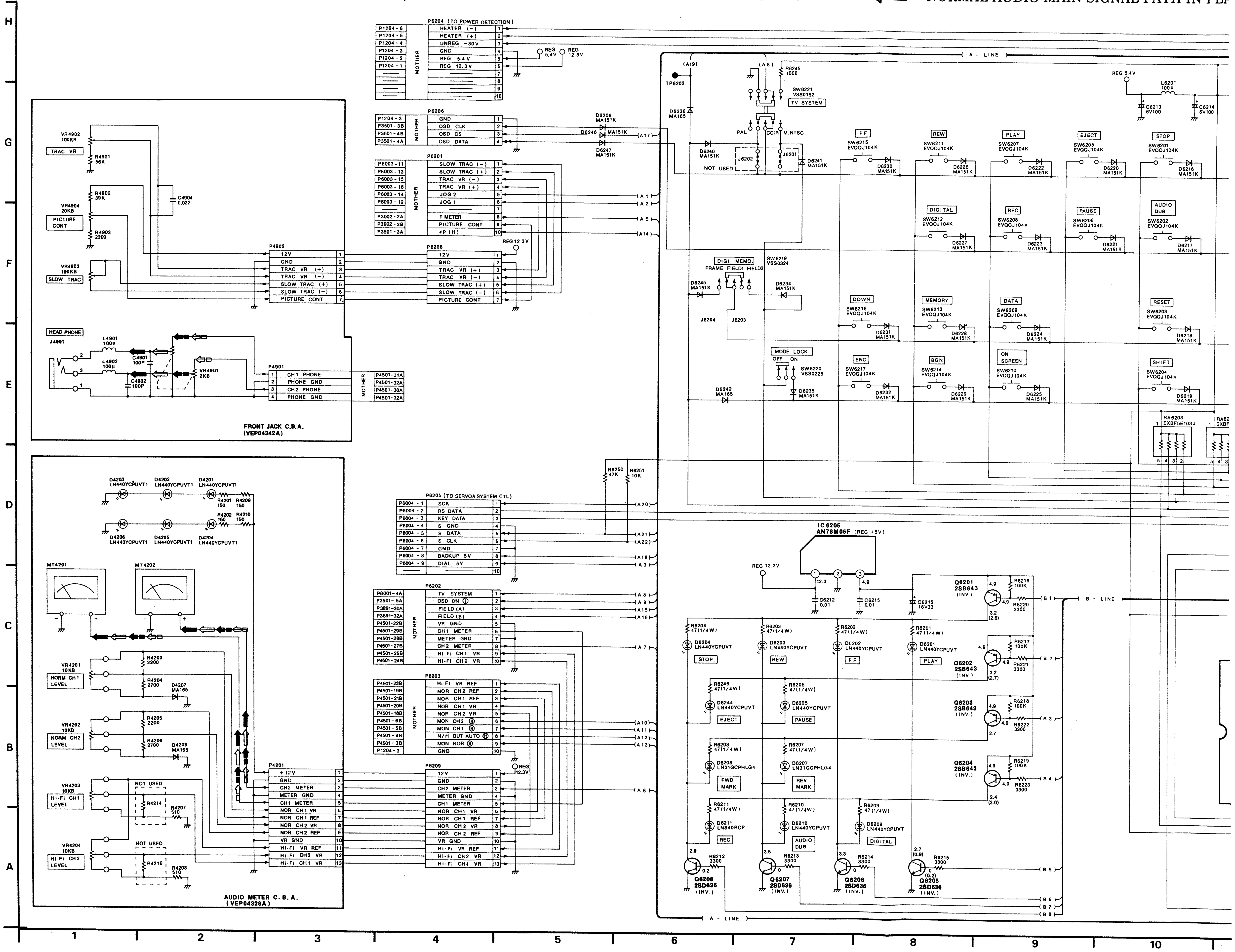
ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

FRONT JACK C.B.A.	
Adjustment	
VR4901	A-10 Ⓕ
VR4902	A-11 Ⓕ
VR4903	A-11 Ⓕ
VR4904	A-12 Ⓕ
Connector	
P4901	A-11 Ⓕ
P4902	A-12 Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

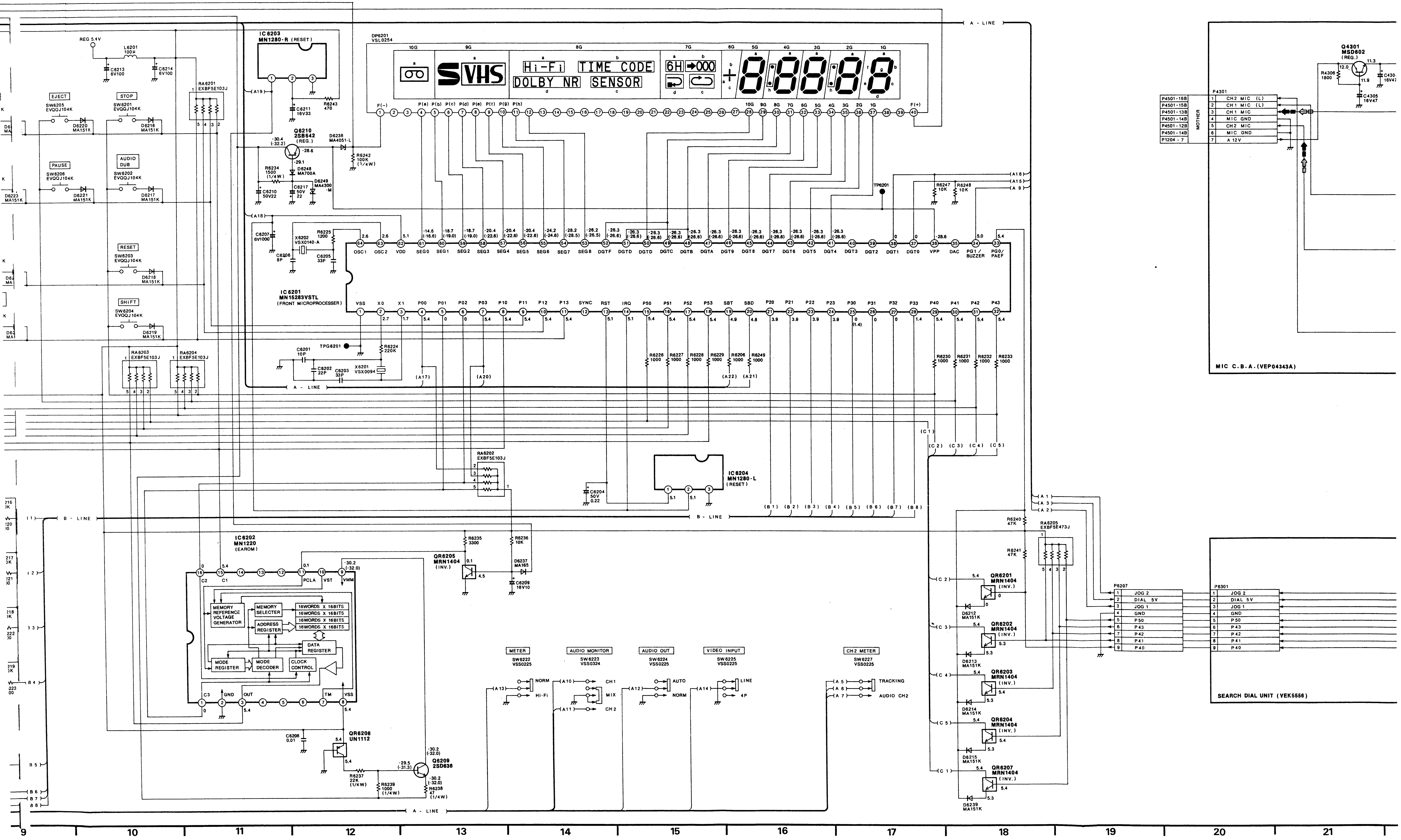
◀ Hi-Fi AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

⇦ NORMAL AUDIO MAIN SIGNAL PATH IN PLA



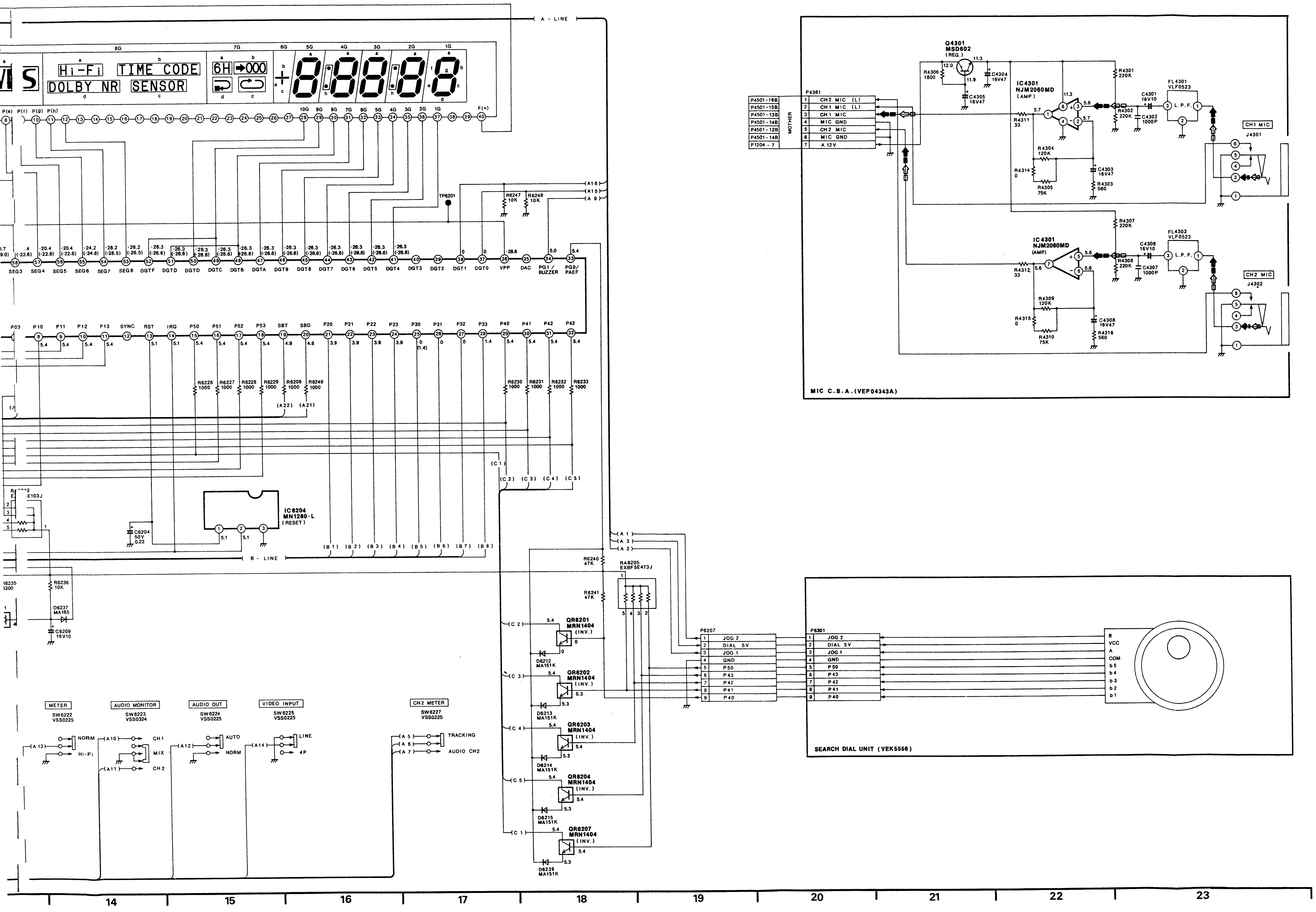
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
P6204 (TO POWER DETECTION)
HEATER (-)
HEATER (+)
UNREG -30V
GND
REG 5.4V
REG 12.3V
MOTHER
P6206
OSD CLK
OSD CS
OSD DATA
P6201
SLOW TRAC (-)
SLOW TRAC (+)
TRAC VR (-)
TRAC VR (+)
JOG 2
JOG 1
T METER
PICTURE CONT
4P (H)
P6208
P4902
12V
GND
TRAC VR (+)
TRAC VR (-)
SLOW TRAC (+)
SLOW TRAC (-)
PICTURE CONT
VR4902 100KB
TRAC VR
R4901 56K
R4902 39K
C4904 0.022
VR4904 20KB
PICTURE CONT
R4903 2200
VR4903 100KB
SLOW TRAC
HEAD PHONE
J4901
L4901 100μ
L4902 100μ
C4901 100P
C4902 100P
VR4901 2KB
P4901
CH1 PHONE
PHONE GND
CH2 PHONE
P4501-31A
P4501-32A
P4501-30A
FRONT JACK C.B.A. (VEP04342A)
D4203 LN440YCPUVT1
D4202 LN440YCPUVT1
D4201 LN440YCPUVT1
R4201 150
R4209 150
R4202 150
R4210 150
D4206 LN440YCPUVT1
D4205 LN440YCPUVT1
D4204 LN440YCPUVT1
MT4201
MT4202
VR4201 10KB
NORM CH1 LEVEL
R4203 2200
R4204 2700
D4207 MA165
VR4202 10KB
NORM CH2 LEVEL
R4205 2200
R4206 2700
D4208 MA165
VR4203 10KB
Hi-Fi CH1 LEVEL
NOT USED
R4214
R4207 510
VR4204 10KB
Hi-Fi CH2 LEVEL
R4216
R4208 510
P4201
+12V
CH2 METER
METER GND
CH1 METER
NOR CH1 VR
NOR CH1 REF
NOR CH2 VR
NOR CH2 REF
VR GND
Hi-Fi VR REF
Hi-Fi CH2 VR
Hi-Fi CH1 VR
AUDIO METER C.B.A. (VEP04328A)
P6205 (TO SERVO & SYSTEM CTL)
SCK
RS DATA
KEY DATA
S GND
S DATA
S CLK
BACKUP 5V
DIAL 5V
P6202
TV SYSTEM
OSD ON
FIELD (A)
FIELD (B)
VR GND
CH1 METER
METER GND
CH2 METER
Hi Fi CH1 VR
Hi-Fi CH2 VR
P6203
Hi-Fi VR REF
NOR CH2 REF
NOR CH1 REF
NOR CH1 VR
NOR CH2 VR
MON CH2
MON CH1
N/H OUT AUTO
MON NOR
P6209
R6250 47K
R6251 10K
REG 12.3V
IC6205 AN78M05F (REG +5V)
C6212 0.01
C6215 0.01
C6216 16V33
TP6202
D6236 MA165
D6206 MA151K
D6246 MA151K
D6247 MA151K
R6245 1000
SW6221 VSS0152
TV SYSTEM
PAL
CCIR
M.NTSC
D6240 MA151K
NOT USED
J6202
J6201
D6241 MA151K
A-LINE
B-LINE
REG 5.4V
L6201 100μ
C6213 6V100
C6214 6V100
FF
SW6215 EVQQJ104K
D6230 MA151K
REW
SW6211 EVQQJ104K
D6226 MA151K
PLAY
SW6207 EVQQJ104K
D6222 MA151K
EJECT
SW6205 EVQQJ104K
D6220 MA151K
STOP
SW6201 EVQQJ104K
D6216 MA151K
DIGITAL
SW6212 EVQQJ104K
D6227 MA151K
REC
SW6208 EVQQJ104K
D6223 MA151K
PAUSE
SW6206 EVQQJ104K
D6221 MA151K
AUDIO DUB
SW6202 EVQQJ104K
D6217 MA151K
DIGI. MEMO.
FRAME FIELD1 FIELD2
SW6219 VSS0324
D6245 MA151K
D6234 MA151K
J6204
J6203
DOWN
SW6216 EVQQJ104K
D6231 MA151K
MEMORY
SW6213 EVQQJ104K
D6228 MA151K
DATA
SW6209 EVQQJ104K
D6224 MA151K
RESET
SW6203 EVQQJ104K
D6218 MA151K
MODE LOCK
OFF ON
SW6220 VSS0225
D6235 MA151K
D6242 MA165
END
SW6217 EVQQJ104K
D6232 MA151K
BGN
SW6214 EVQQJ104K
D6229 MA151K
ON SCREEN
SW6210 EVQQJ104K
D6225 MA151K
SHIFT
SW6204 EVQQJ104K
D6219 MA151K
RA6203 EXBF5E103J
Q6201 2SB643 (INV.)
R6216 100K
R6220 3300
Q6202 2SB643 (INV.)
R6217 100K
R6221 3300
Q6203 2SB643 (INV.)
R6218 100K
R6222 3300
Q6204 2SB643 (INV.)
R6219 100K
R6223 3300
R6204 47(1/4W)
D6204 LN440YCPUVT
STOP
R6203 47(1/4W)
D6203 LN440YCPUVT
REW
R6202 47(1/4W)
D6202 LN440YCPUVT
FF
R6201 47(1/4W)
D6201 LN440YCPUVT
PLAY
R6246 47(1/4W)
D6244 LN440YCPUVT
EJECT
R6205 47(1/4W)
D6205 LN440YCPUVT
PAUSE
R6208 47(1/4W)
D6208 LN31GCPHLG4
FWD MARK
R6207 47(1/4W)
D6207 LN31GCPHLG4
REV MARK
R6211 47(1/4W)
D6211 LN840RCP
REC
R6210 47(1/4W)
D6210 LN440YCPUVT
AUDIO DUB
R6209 47(1/4W)
D6209 LN440YCPUVT
DIGITAL
R6212 3300
Q6208 2SD636 (INV.)
R6213 3300
Q6207 2SD636 (INV.)
R6214 3300
Q6206 2SD636 (INV.)
R6215 3300
Q6205 2SD636 (INV.)

MAIN SIGNAL PATH IN PLAYBACK MODE ◀■ Hi-Fi AUDIO MAIN SIGNAL PATH IN REC MODE ◁□ NORMAL AUDIO MAIN SIGNAL PATH IN REC MODE

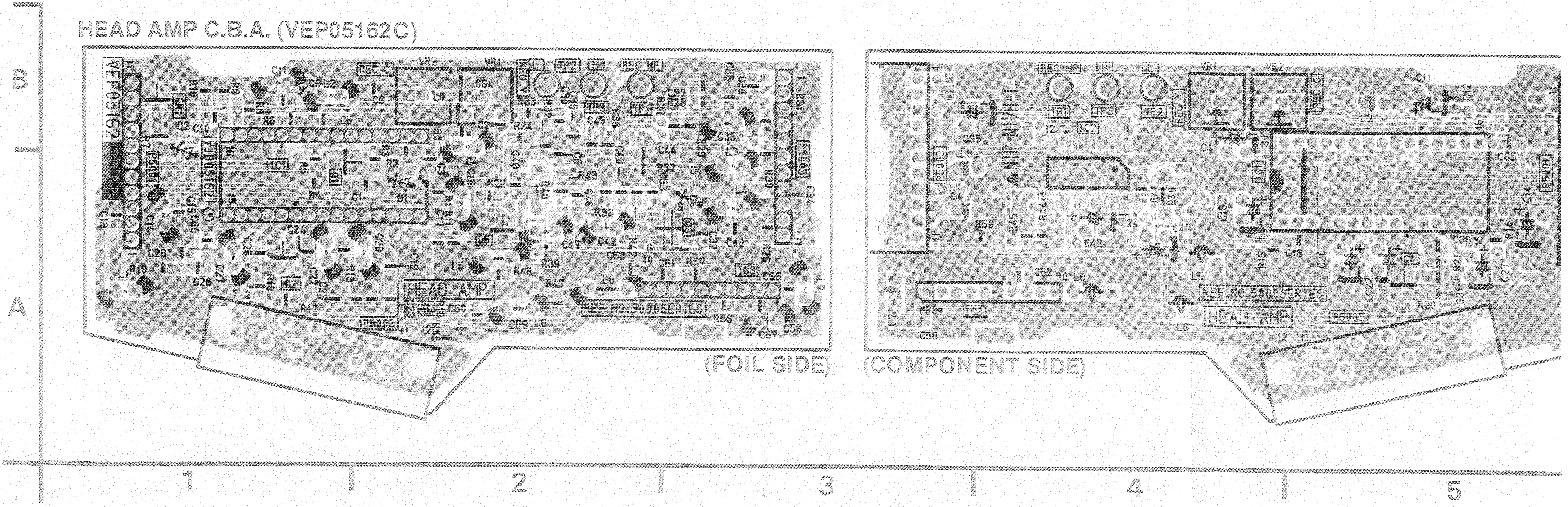

A - LINE
B - LINE
REG 5.4V
L6201 100μ
C6213 6V100
C6214 6V100
IC6203 MN1280-R (RESET)
RA6201 EXBF5E103J
DP6201 VSL0254
10G 9G 8G 7G 6G 5G 4G 3G 2G 1G
S VHS
Hi-Fi
TIME CODE
DOLBY NR
SENSOR
6H
000
EJECT
SW6205 EVQQJ104K
STOP
SW6201 EVQQJ104K
D6220 MA151K
D6216 MA151K
PAUSE
SW6206 EVQQJ104K
AUDIO DUB
SW6202 EVQQJ104K
D6221 MA151K
D6217 MA151K
D6223 MA151K
RESET
SW6203 EVQQJ104K
D6218 MA151K
SHIFT
SW6204 EVQQJ104K
D6219 MA151K
RA6203 EXBF5E103J
RA6204 EXBF5E103J
Q6210 2SB642 (REG.)
R6243 470
C6211 16V33
D6238 MA4051-L
R6242 100K (1/4W)
R6234 1500 (1/4W)
D6248 MA700A
D6249 MA4300-M
C6210 50V22
C6217 50V 22
C6207 6V1000
X6202 VSX0140-A
R6225 1200
C6206 8P
C6205 33P
IC6201 MN15283VSTL (FRONT MICROPROCESSOR)
OSC1 OSC2 VDD SEG0 SEG1 SEG2 SEG3 SEG4 SEG5 SEG6 SEG7 SEG8 DGTF DGTD DGTD DGTC DGTB DGTA DGT9 DGT8 DGT7 DGT6 DGT5 DGT4 DGT3 DGT2 DGT1 DGT0 VPP DAC PG1/BUZZER PG0/PAEF
VSS X0 X1 P00 P01 P02 P03 P10 P11 P12 P13 SYNC RST IRQ P50 P51 P52 P53 SBT SBD P20 P21 P22 P23 P30 P31 P32 P33 P40 P41 P42 P43
TP6201
R6247 10K
R6248 10K
TPG6201
C6201 10P
R6224 220K
C6202 22P
C6203 33P
X6201 VSX0094
R6226 1000 R6227 1000 R6228 1000 R6229 1000 R6206 1000 R6249 1000
R6230 1000 R6231 1000 R6232 1000 R6233 1000
RA6202 EXBF5E103J
IC6204 MN1280-L (RESET)
C6204 50V 0.22
IC6202 MN1220 (EAROM)
MEMORY REFERENCE VOLTAGE GENERATOR
MEMORY SELECTER
ADDRESS REGISTER
16WORDS X 16BITS
DATA REGISTER
MODE REGISTER
MODE DECODER
CLOCK CONTROL
PCLA VST VMM C2 C1 C3 GND OUT TM VSS
R6235 3300
R6236 10K
QR6205 MRN1404 (INV.)
D6237 MA165
C6209 16V10
C6208 0.01
QR6206 UN1112
Q6209 2SD636
R6237 22K (1/4W)
R6239 1000 (1/4W)
R6238 47 (1/4W)
METER SW6222 VSS0225 NORM Hi-Fi
AUDIO MONITOR SW6223 VSS0324 CH1 MIX CH2
AUDIO OUT SW6224 VSS0225 AUTO NORM
VIDEO INPUT SW6225 VSS0225 LINE 4P
CH2 METER SW6227 VSS0225 TRACKING AUDIO CH2
Q4301 MSD602 (REG.)
R4306 1800
C4305 16V47
P4301
P4501-16B P4501-15B P4501-13B P4501-14B P4501-12B P4501-14B P1204-7
MOTHER
CH2 MIC (L)
CH1 MIC (L)
CH1 MIC
MIC GND
CH2 MIC
MIC GND
A 12V
MIC C.B.A. (VEP04343A)
R6240 47K
R6241 47K
RA6205 EXBF5E473J
QR6201 MRN1404 (INV.)
D6212 MA151K
QR6202 MRN1404 (INV.)
D6213 MA151K
QR6203 MRN1404 (INV.)
D6214 MA151K
QR6204 MRN1404 (INV.)
D6215 MA151K
QR6207 MRN1404 (INV.)
D6239 MA151K
P6207
P6301
JOG 2
DIAL 5V
JOG 1
GND
P50
P43
P42
P41
P40
SEARCH DIAL UNIT (VEK5556)
9 10 11 12 13 14 15 16 17 18 19 20 21

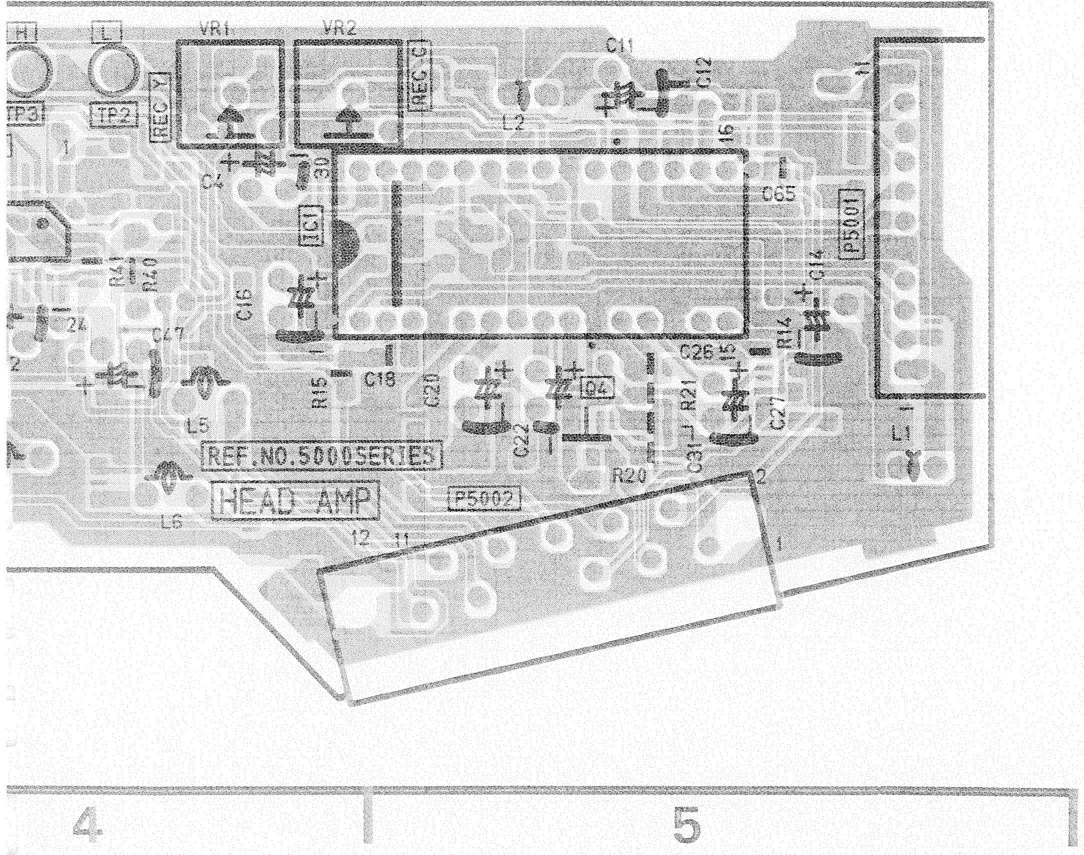
IN SIGNAL PATH IN REC MODE

⇦ NORMAL AUDIO MAIN SIGNAL PATH IN REC MODE


A - LINE
B - LINE
Hi-Fi
TIME CODE
DOLBY NR
SENSOR
6H
→000
8G 7G 6G 5G 4G 3G 2G 1G
10G 9G 8G 7G 6G 5G 4G 3G 2G 1G F(+)
SEG3 SEG4 SEG5 SEG6 SEG7 SEG8 DGTF DGTD DGTD DGTC DGTB DGTA DGT9 DGT8 DGT7 DGT6 DGT5 DGT4 DGT3 DGT2 DGT1 DGT0 VPP DAC
PG1 / BUZZER
PG0 / PAEF
TP6201
R6247 10K
R6248 10K
P03 P10 P11 P12 P13 SYNC RST IRQ P50 P51 P52 P53 SBT SBD P20 P21 P22 P23 P30 P31 P32 P33 P40 P41 P42 P43
R6226 1000
R6227 1000
R6228 1000
R6229 1000
R6206 1000
R6249 1000
R6230 1000
R6231 1000
R6232 1000
R6233 1000
IC6204 MN1280-L (RESET)
C6204 50V 0.22
R6236 10K
D6237 MA165
C6209 16V10
METER SW6222 VSS0225
NORM Hi-Fi
AUDIO MONITOR SW6223 VSS0324
CH1 MIX CH2
AUDIO OUT SW6224 VSS0225
AUTO NORM
VIDEO INPUT SW6225 VSS0225
LINE 4P
CH2 METER SW6227 VSS0225
TRACKING AUDIO CH2
R6240 47K
R6241 47K
RA6205 EXBF5E473J
QR6201 MRN1404 (INV.)
D6212 MA151K
QR6202 MRN1404 (INV.)
D6213 MA151K
QR6203 MRN1404 (INV.)
D6214 MA151K
QR6204 MRN1404 (INV.)
D6215 MA151K
QR6207 MRN1404 (INV.)
D6239 MA151K
P6207
JOG 2
DIAL 5V
JOG 1
GND
P50
P43
P42
P41
P40
P6301
B VCC A COM b5 b4 b3 b2 b1
SEARCH DIAL UNIT (VEK5556)
Q4301 MSD602 (REG.)
R4306 1800
C4304 16V47
C4305 16V47
IC4301 NJM2060MD (AMP)
R4301 220K
R4302 220K
C4301 16V10
C4302 1000P
FL4301 VLF0523
L.P.F.
CH1 MIC J4301
R4311 33
R4304 120K
R4314 0
R4305 75K
C4303 16V47
R4303 560
R4307 220K
FL4302 VLF0523
C4306 16V10
R4308 220K
C4307 1000P
R4312 33
R4309 120K
R4315 0
R4310 75K
C4308 16V47
R4316 560
CH2 MIC J4302
P4301
P4501-16B CH2 MIC (L)
P4501-15B CH1 MIC (L)
P4501-13B CH1 MIC
P4501-14B MIC GND
P4501-12B CH2 MIC
P4501-14B MIC GND
P1204-7 A 12V
MOTHER
MIC C.B.A. (VEP04343A)
14 15 16 17 18 19 20 21 22 23

HEAD AMP C.B.A. (VEP05162C)

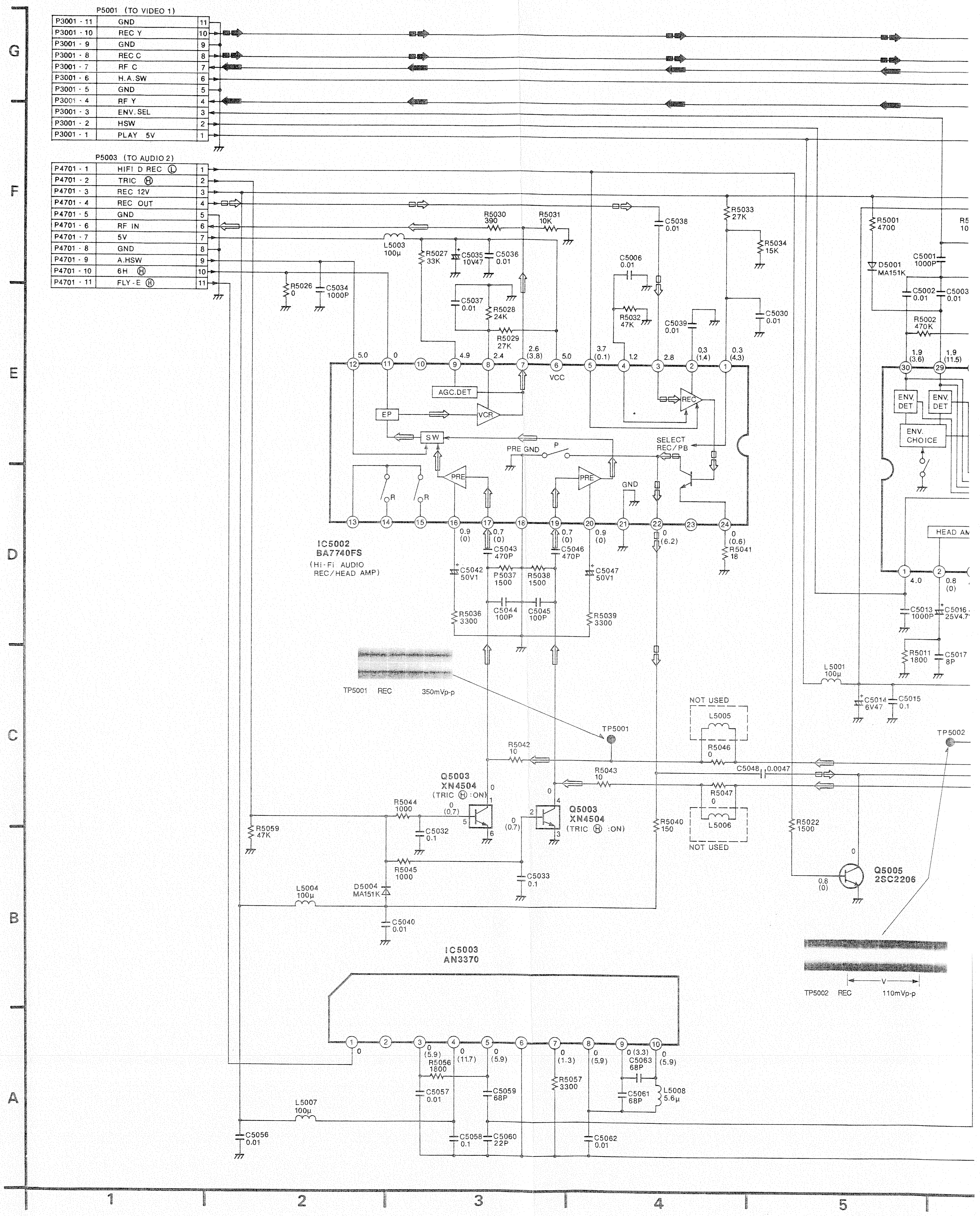

HEAD AMP C.B.A. (VEP05162C)
B
A
1
2
3
4
5
VEP05162
IC1
IC2
IC3
Q1
Q2
Q4
Q5
VR1
VR2
REC C
REC Y
REC HF
TP1
TP2
TP3
P5001
P5002
P5003
HEAD AMP
REF.NO.5000SERIES
(FOIL SIDE)
(COMPONENT SIDE)


H
L
VR1
VR2
TP3
TP2
REC Y
REC C
C11
C12
L2
16
30
C4
IC1
C65
P5001
C16
R41
R40
C47
C14
R14
C26
R15
C18
C20
D4
R21
C27
L5
REF.NO.5000SERIES
C22
C31
R20
L1
L6
HEAD AMP
P5002
12
11
1
4
5

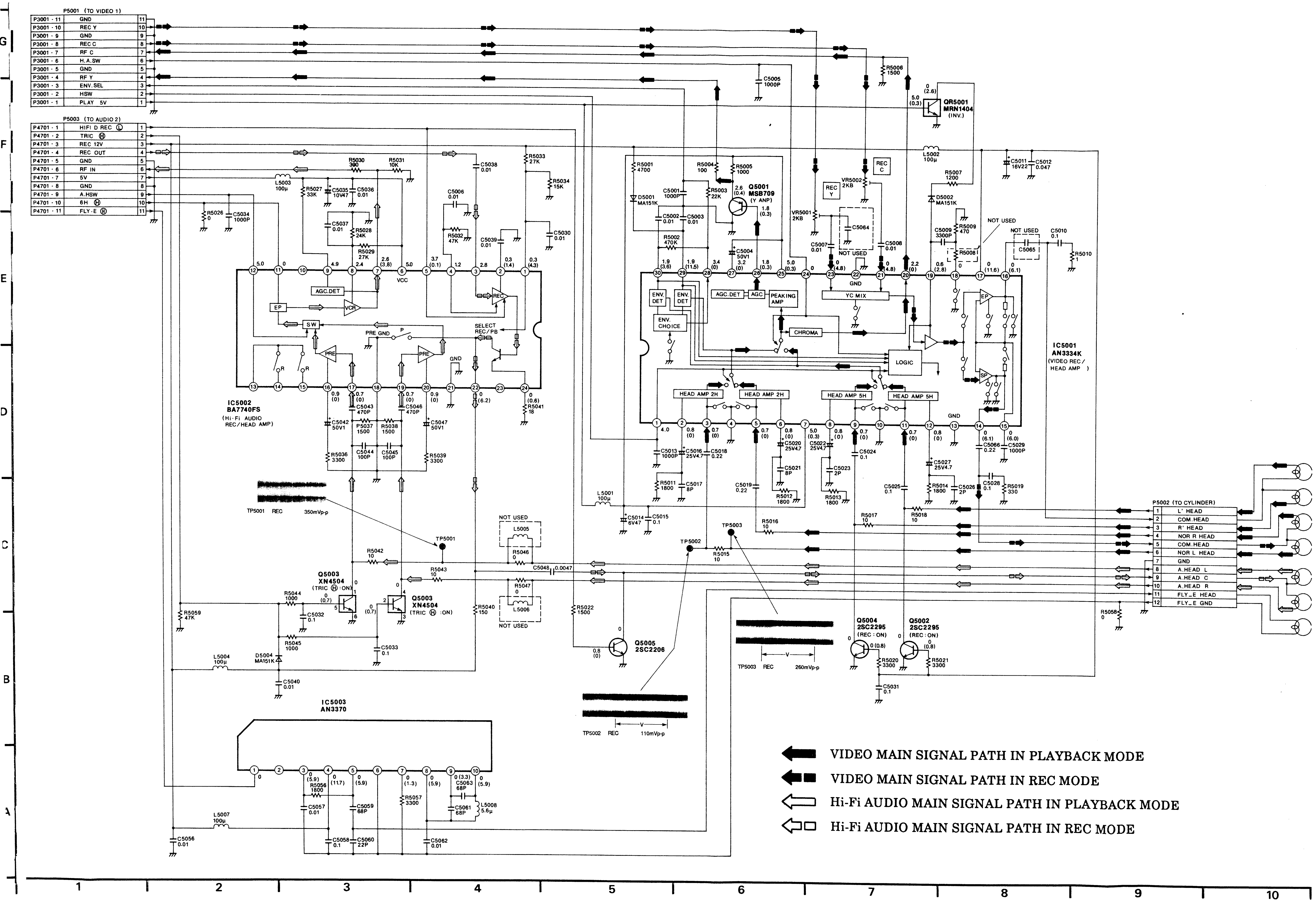
HEAD AMP C.B.A.	
Transistor	
Q5001	A-1 Ⓕ
Q5002	A-1 Ⓕ
Q5003	A-3 Ⓕ
Q5004	A-5 Ⓒ
Q5005	A-2 Ⓕ
Transistor & Resistor	
QR5001	B-1 Ⓕ
Integrated Circuit	
IC5001	A-1 Ⓕ
IC5001	A-4 Ⓒ
IC5002	B-4 Ⓒ
IC5003	A-3 Ⓕ
IC5003	A-4 Ⓒ
Adjustment	
VR5001	B-2 Ⓕ
VR5001	B-4 Ⓒ
VR5002	B-2 Ⓕ
VR5002	B-5 Ⓒ
Test Point	
TP5001	B-2 Ⓕ
TP5001	B-4 Ⓒ
TP5002	B-2 Ⓕ
TP5002	B-4 Ⓒ
TP5003	B-2 Ⓕ
TP5003	B-4 Ⓒ
Connector	
P5001	A-1 Ⓕ
P5001	A-5 Ⓒ
P5002	A-2 Ⓕ
P5002	A-5 Ⓒ
P5003	A-3 Ⓕ
P5003	A-3 Ⓒ

ADDRESS INFORMATION
Ⓒ... COMPONENT SIDE
Ⓕ... FOIL SIDE

HEAD AMP SCHEMATIC DIAGRAM


P5001 (TO VIDEO 1)
P3001 - 11 GND 11
P3001 - 10 REC Y 10
P3001 - 9 GND 9
P3001 - 8 REC C 8
P3001 - 7 RF C 7
P3001 - 6 H.A.SW 6
P3001 - 5 GND 5
P3001 - 4 RF Y 4
P3001 - 3 ENV. SEL 3
P3001 - 2 HSW 2
P3001 - 1 PLAY 5V 1
P5003 (TO AUDIO 2)
P4701 - 1 HIFI D REC Ⓛ 1
P4701 - 2 TRIC Ⓗ 2
P4701 - 3 REC 12V 3
P4701 - 4 REC OUT 4
P4701 - 5 GND 5
P4701 - 6 RF IN 6
P4701 - 7 5V 7
P4701 - 8 GND 8
P4701 - 9 A.HSW 9
P4701 - 10 6H Ⓗ 10
P4701 - 11 FLY-E Ⓗ 11
G
F
E
D
C
B
A
1
2
3
4
5
L5003 100μ
R5026 0
C5034 1000P
R5027 33K
C5035 10V47
C5036 0.01
R5030 390
R5031 10K
C5037 0.01
R5028 24K
R5029 27K
C5006 0.01
C5038 0.01
R5032 47K
C5039 0.01
R5033 27K
R5034 15K
C5030 0.01
AGC.DET
EP
VCR
SW
PRE GND
PRE
REC
SELECT REC/PB
GND
VCC
IC5002
BA7740FS
(Hi-Fi AUDIO REC/HEAD AMP)
C5042 50V1
C5043 470P
C5046 470P
C5047 50V1
P5037 1500
R5038 1500
R5036 3300
C5044 100P
C5045 100P
R5039 3300
R5041 18
TP5001 REC 350mVp-p
TP5001
R5042 10
R5043 10
Q5003 XN4504 (TRIC Ⓗ :ON)
R5044 1000
C5032 0.1
R5045 1000
C5033 0.1
D5004 MA151K
L5004 100μ
C5040 0.01
R5059 47K
NOT USED
L5005
R5046 0
C5048 0.0047
R5047 0
L5006
R5040 150
R5022 1500
Q5005 2SC2206
R5001 4700
D5001 MA151K
C5001 1000P
C5002 0.01
C5003 0.01
R5002 470K
ENV. DET
ENV. CHOICE
HEAD AM
C5013 1000P
C5016 25V4.7
R5011 1800
C5017 8P
L5001 100μ
C5014 6V47
C5015 0.1
TP5002
TP5002 REC 110mVp-p
IC5003
AN3370
R5056 1800
C5057 0.01
C5059 68P
R5057 3300
C5063 68P
C5061 68P
L5008 5.6μ
L5007 100μ
C5056 0.01
C5058 0.1
C5060 22P
C5062 0.01

HEAD AMP SCHEMATIC DIAGRAM


P5001 (TO VIDEO 1)
P3001 - 11 GND 11
P3001 - 10 REC Y 10
P3001 - 9 GND 9
P3001 - 8 REC C 8
P3001 - 7 RF C 7
P3001 - 6 H.A.SW 6
P3001 - 5 GND 5
P3001 - 4 RF Y 4
P3001 - 3 ENV. SEL 3
P3001 - 2 HSW 2
P3001 - 1 PLAY 5V 1
P5003 (TO AUDIO 2)
P4701 - 1 HIFI D REC Ⓛ 1
P4701 - 2 TRIC Ⓗ 2
P4701 - 3 REC 12V 3
P4701 - 4 REC OUT 4
P4701 - 5 GND 5
P4701 - 6 RF IN 6
P4701 - 7 5V 7
P4701 - 8 GND 8
P4701 - 9 A.HSW 9
P4701 - 10 6H Ⓗ 10
P4701 - 11 FLY-E Ⓗ 11
IC5002
BA7740FS
(Hi-Fi AUDIO REC/HEAD AMP)
AGC.DET
EP
VCR
SW
PRE
PRE GND
SELECT REC/PB
REC
GND
VCC
IC5001
AN3334K
(VIDEO REC/HEAD AMP)
ENV. DET
ENV. CHOICE
AGC.DET
AGC
PEAKING AMP
YC MIX
CHROMA
LOGIC
HEAD AMP 2H
HEAD AMP 5H
EP
SP
NOT USED
Q5001
MSB709
(Y AMP)
QR5001
MRN1404
(INV.)
Q5002
2SC2295
(REC : ON)
Q5004
2SC2295
(REC : ON)
Q5005
2SC2206
Q5003
XN4504
(TRIC Ⓗ :ON)
IC5003
AN3370
TP5001 REC 350mVp-p
TP5002 REC 110mVp-p
TP5003 REC 260mVp-p
TP5001
TP5002
TP5003
P5002 (TO CYLINDER)
1 L' HEAD
2 COM.HEAD
3 R' HEAD
4 NOR R HEAD
5 COM.HEAD
6 NOR L HEAD
7 GND
8 A.HEAD L
9 A.HEAD C
10 A.HEAD R
11 FLY_E HEAD
12 FLY_E GND
REC Y
REC C
VR5001 2KB
VR5002 2KB
L5001 100μ
L5002 100μ
L5003 100μ
L5004 100μ
L5007 100μ
L5008 5.6μ
D5001 MA151K
D5002 MA151K
D5004 MA151K
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

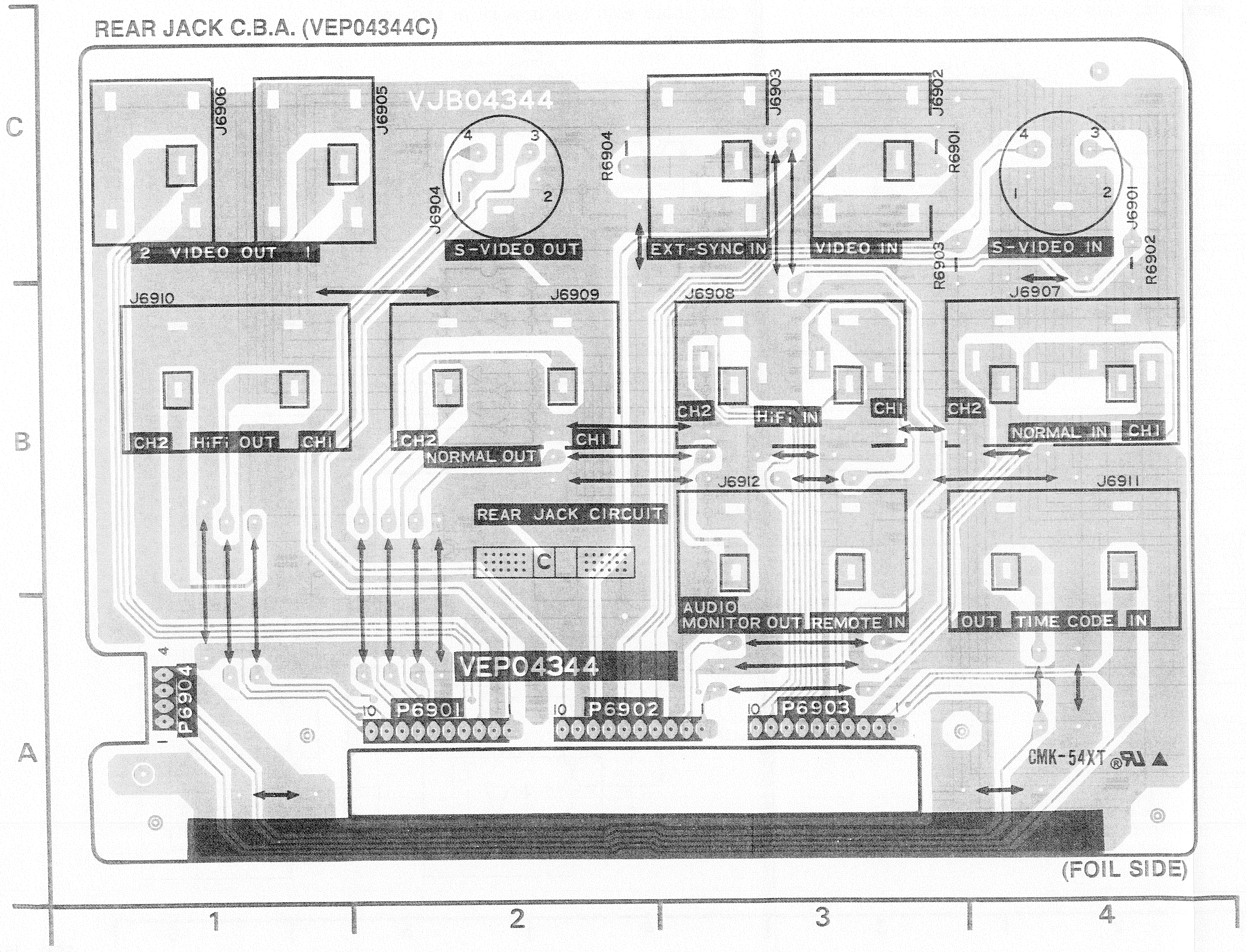
⬅ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

⬅■ VIDEO MAIN SIGNAL PATH IN REC MODE

⇦ Hi-Fi AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

⇦□ Hi-Fi AUDIO MAIN SIGNAL PATH IN REC MODE

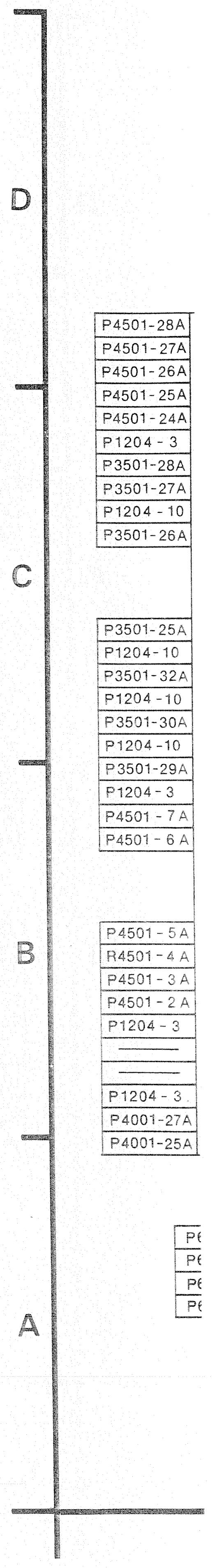
REAR JACK C.B.A. (VEP04344C)


REAR JACK C.B.A. (VEP04344C)
VJB04344
J6906
J6905
4
3
1
2
J6904
2 VIDEO OUT 1
S-VIDEO OUT
R6904
J6903
EXT-SYNC IN
J6902
R6901
VIDEO IN
R6903
S-VIDEO IN
J6901
R6902
J6910
J6909
J6908
J6907
CH2
HiFi OUT
CH1
CH2
NORMAL OUT
CH1
CH2
HiFi IN
CH1
CH2
NORMAL IN
CH1
J6912
J6911
REAR JACK CIRCUIT
C
AUDIO MONITOR OUT
REMOTE IN
OUT
TIME CODE
IN
VEP04344
P6904
P6901
P6902
P6903
10
1
CMK-54XT
(FOIL SIDE)
C
B
A
1
2
3
4

REAR JACK C.B.A.	
Connector	
P6901	A-2 Ⓕ
P6902	A-2 Ⓕ
P6903	A-3 Ⓕ
P6904	A-1 Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

REAR JACK

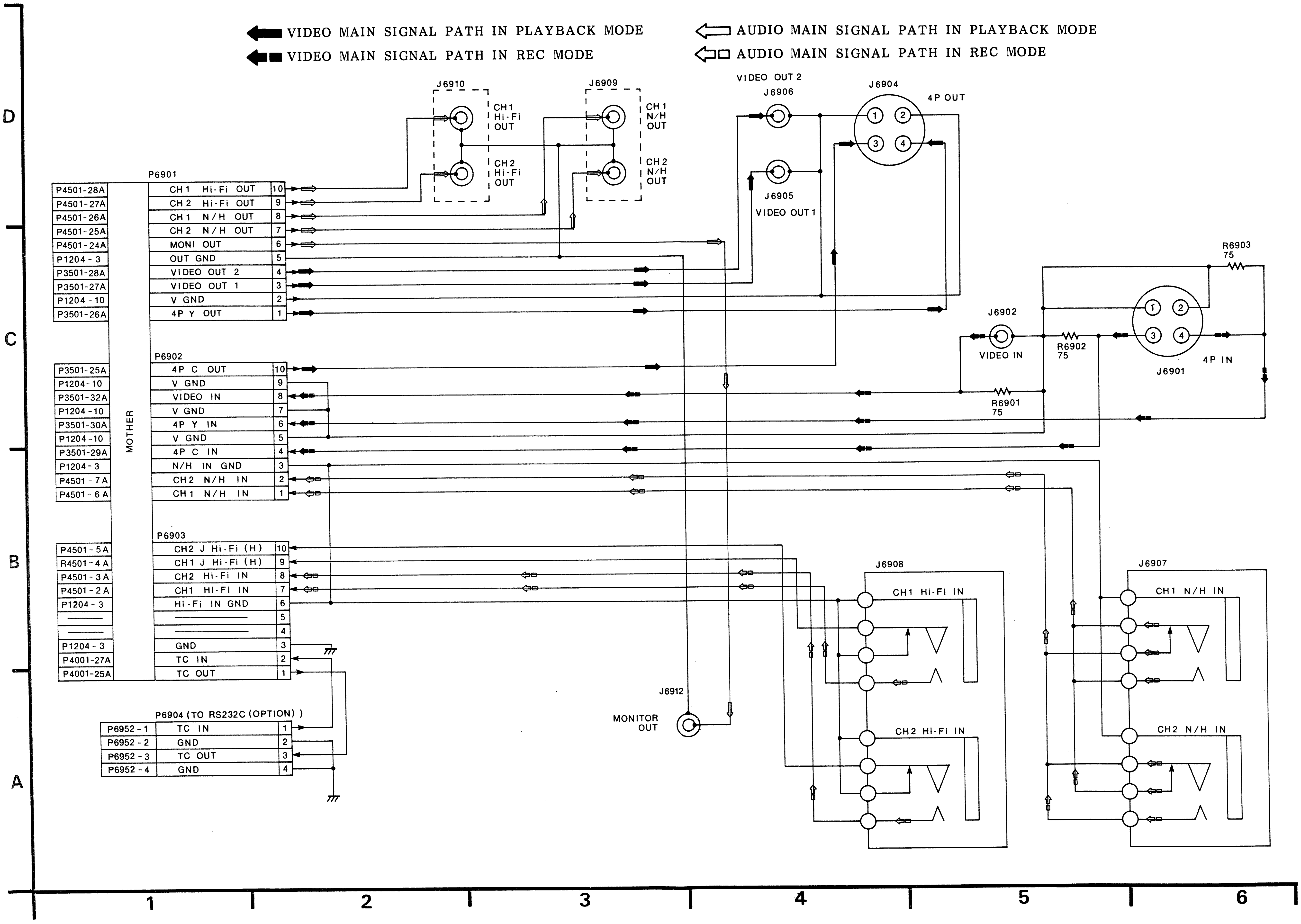

D
C
B
A
P4501-28A
P4501-27A
P4501-26A
P4501-25A
P4501-24A
P1204-3
P3501-28A
P3501-27A
P1204-10
P3501-26A
P3501-25A
P1204-10
P3501-32A
P1204-10
P3501-30A
P1204-10
P3501-29A
P1204-3
P4501-7A
P4501-6A
P4501-5A
R4501-4A
P4501-3A
P4501-2A
P1204-3
P1204-3
P4001-27A
P4001-25A

REAR JACK SCHEMATIC DIAGRAM

A.

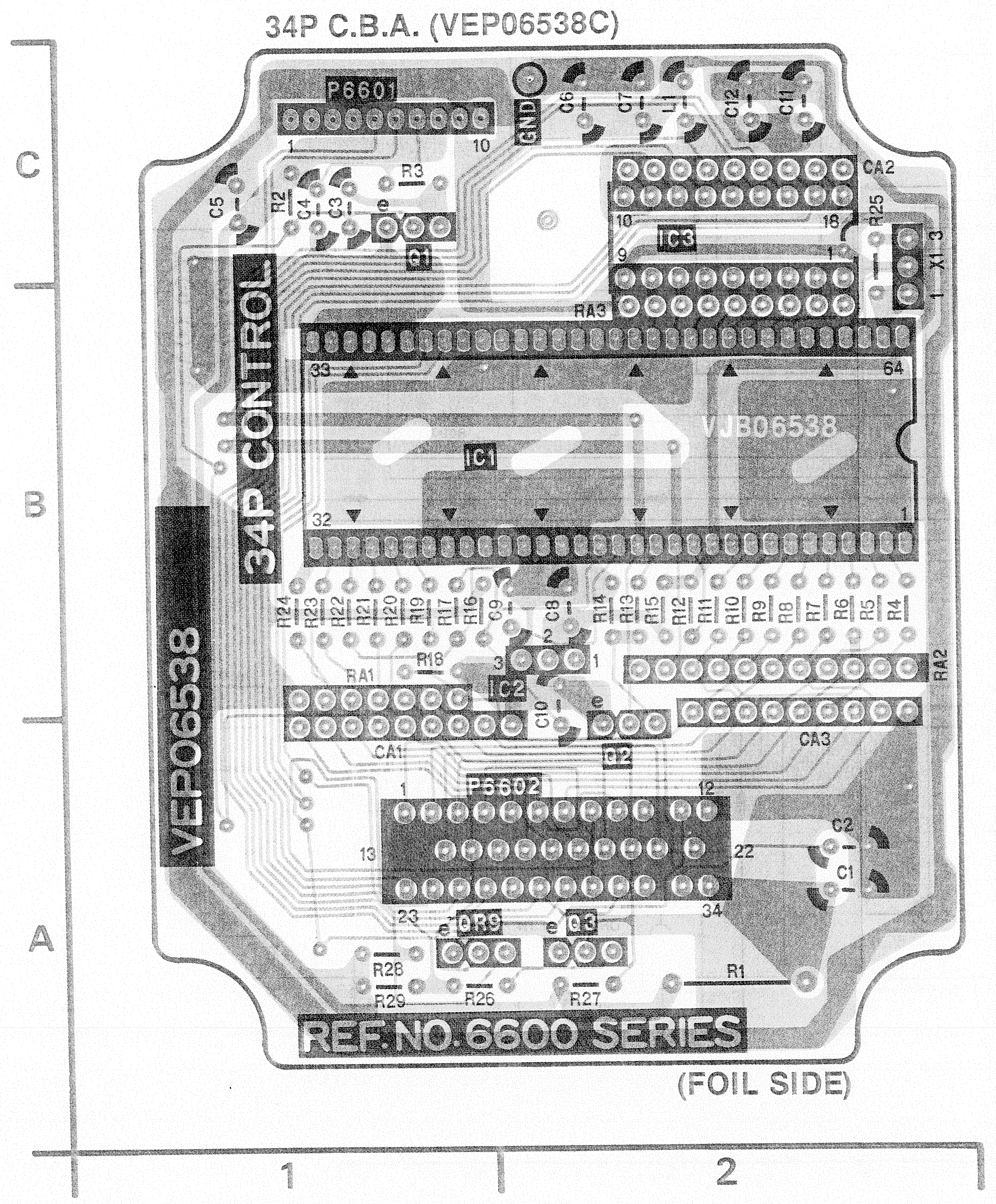
A-2 Ⓕ
A-2 Ⓕ
A-3 Ⓕ
A-1 Ⓕ

MATION
SIDE



VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
VIDEO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
D
C
B
A
1
2
3
4
5
6
J6910
CH1 Hi-Fi OUT
CH2 Hi-Fi OUT
J6909
CH1 N/H OUT
CH2 N/H OUT
VIDEO OUT 2
J6906
J6904
4P OUT
J6905
VIDEO OUT 1
R6903
75
J6902
VIDEO IN
R6902
75
R6901
75
J6901
4P IN
P6901
P4501-28A
P4501-27A
P4501-26A
P4501-25A
P4501-24A
P1204-3
P3501-28A
P3501-27A
P1204-10
P3501-26A
10 CH1 Hi-Fi OUT
9 CH2 Hi-Fi OUT
8 CH1 N/H OUT
7 CH2 N/H OUT
6 MONI OUT
5 OUT GND
4 VIDEO OUT 2
3 VIDEO OUT 1
2 V GND
1 4P Y OUT
MOTHER
P6902
P3501-25A
P1204-10
P3501-32A
P1204-10
P3501-30A
P1204-10
P3501-29A
P1204-3
P4501-7A
P4501-6A
10 4P C OUT
9 V GND
8 VIDEO IN
7 V GND
6 4P Y IN
5 V GND
4 4P C IN
3 N/H IN GND
2 CH2 N/H IN
1 CH1 N/H IN
P6903
P4501-5A
R4501-4A
P4501-3A
P4501-2A
P1204-3
P1204-3
P4001-27A
P4001-25A
10 CH2 J Hi-Fi (H)
9 CH1 J Hi-Fi (H)
8 CH2 Hi-Fi IN
7 CH1 Hi-Fi IN
6 Hi-Fi IN GND
5
4
3 GND
2 TC IN
1 TC OUT
P6904 (TO RS232C (OPTION))
P6952-1 TC IN 1
P6952-2 GND 2
P6952-3 TC OUT 3
P6952-4 GND 4
J6912
MONITOR OUT
J6908
CH1 Hi-Fi IN
CH2 Hi-Fi IN
J6907
CH1 N/H IN
CH2 N/H IN

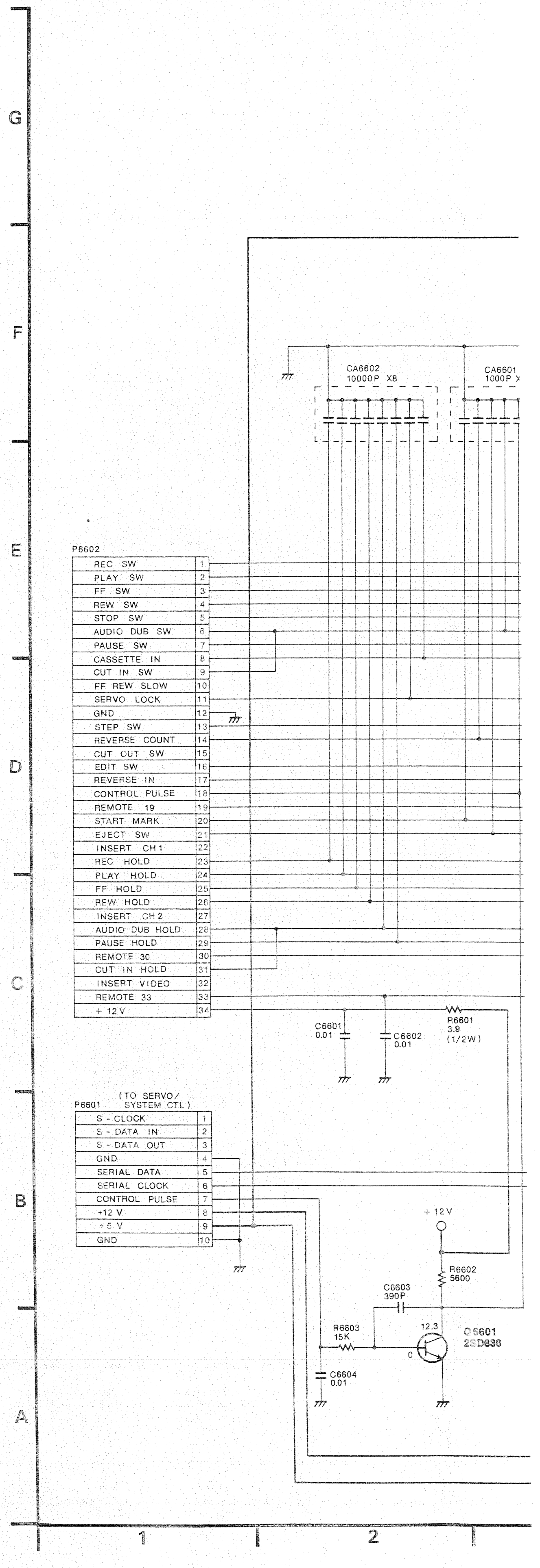
34P C.B.A. (VEP06538C)


34P C.B.A. (VEP06538C)
C
B
A
1
2
P6601
1
10
GND
C6
C7
L1
C12
C11
CA2
C5
R12
C4
C3
R3
e
Q1
10
18
9
1
IC3
R25
X1
3
1
RA3
34P CONTROL
33
64
VJB06538
IC1
32
1
VEP06538
R24
R23
R22
R21
R20
R19
R17
R16
C9
C8
R14
R13
R15
R12
R11
R10
R9
R8
R7
R6
R5
R4
R18
2
3
1
RA1
IC2
RA2
C10
e
Q2
CA1
CA3
P6602
1
12
13
22
23
34
C2
C1
e
QR9
e
Q3
R28
R29
R26
R27
R1
REF. NO. 6600 SERIES
(FOIL SIDE)

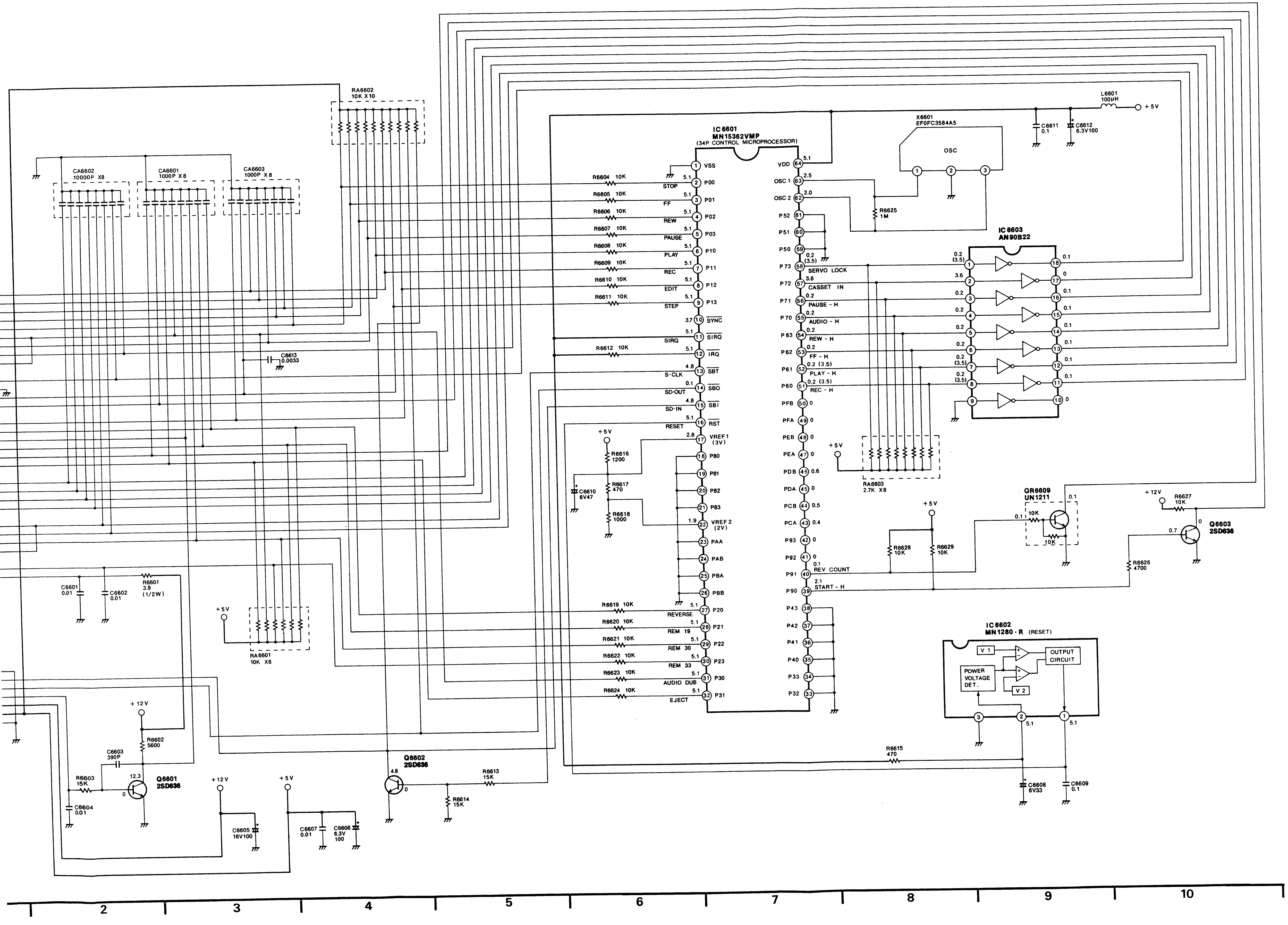
34P C.B.A.	
Transistor	
Q6601 Q6602 Q6603	C-1 A-2 A-2
Transistor & Resistor	
QR6609	A-1
Integrated Circuit	
IC6601 IC6602 IC6603	B-1 B-2 A-2
Connector	
P6601 P6602	C-1 A-2

ADDRESS INFORMATION

34P INTERFACE SCHEMATIC

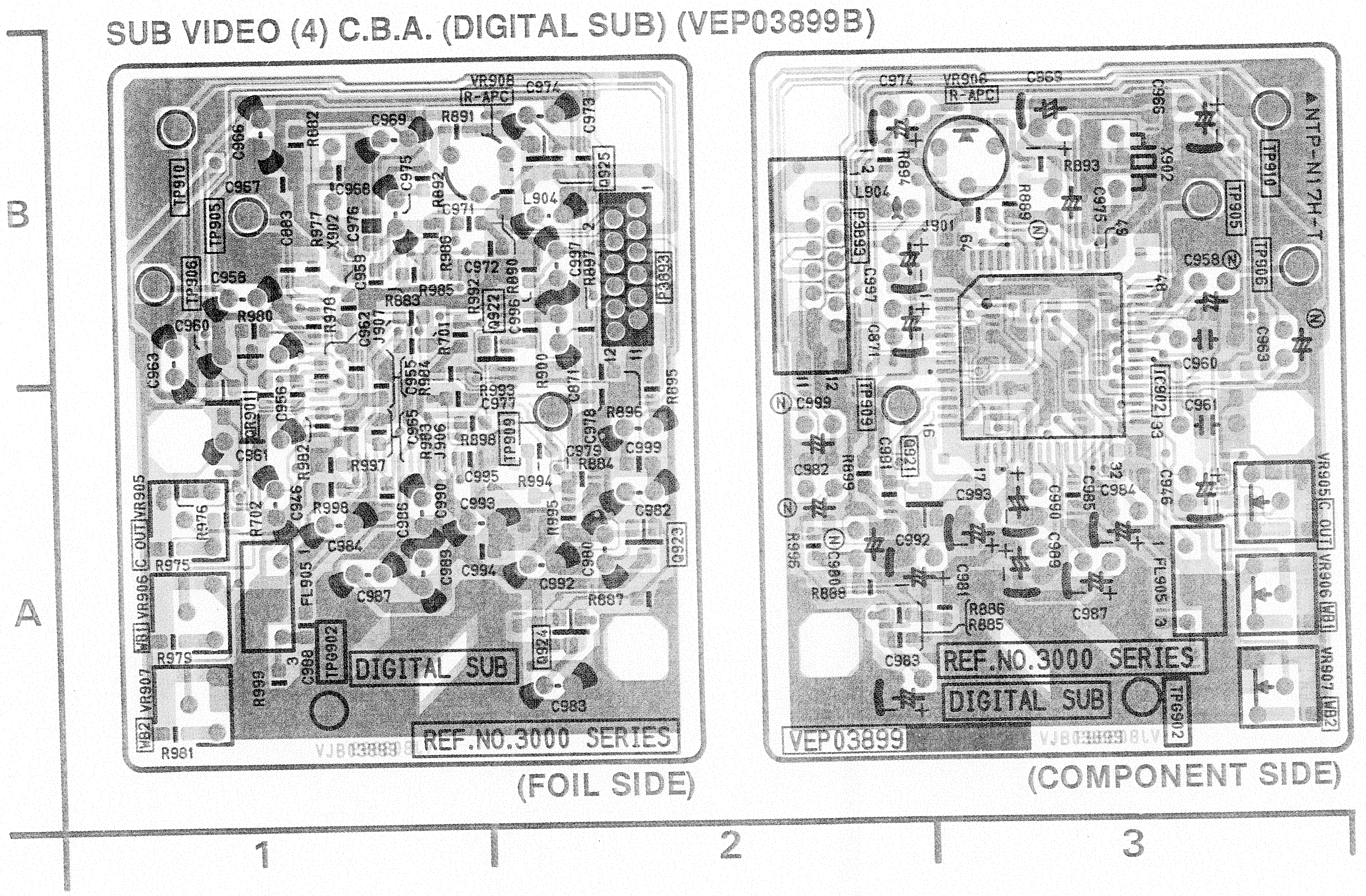

G
F
E
D
C
B
A
1
2
CA6602
10000P X8
CA6601
1000P X
P6602
REC SW 1
PLAY SW 2
FF SW 3
REW SW 4
STOP SW 5
AUDIO DUB SW 6
PAUSE SW 7
CASSETTE IN 8
CUT IN SW 9
FF REW SLOW 10
SERVO LOCK 11
GND 12
STEP SW 13
REVERSE COUNT 14
CUT OUT SW 15
EDIT SW 16
REVERSE IN 17
CONTROL PULSE 18
REMOTE 19 19
START MARK 20
EJECT SW 21
INSERT CH1 22
REC HOLD 23
PLAY HOLD 24
FF HOLD 25
REW HOLD 26
INSERT CH2 27
AUDIO DUB HOLD 28
PAUSE HOLD 29
REMOTE 30 30
CUT IN HOLD 31
INSERT VIDEO 32
REMOTE 33 33
+ 12 V 34
C6601
0.01
C6602
0.01
R6601
3.9
(1/2W)
P6601
(TO SERVO/ SYSTEM CTL)
S - CLOCK 1
S - DATA IN 2
S - DATA OUT 3
GND 4
SERIAL DATA 5
SERIAL CLOCK 6
CONTROL PULSE 7
+12 V 8
+5 V 9
GND 10
+ 12 V
R6602
5600
C6603
390P
R6603
15K
12.3
0
Q6601
2SD838
C6604
0.01

CE SCHEMATIC DIAGRAM


IC6601
MN15362VMP
(34P CONTROL MICROPROCESSOR)
VSS
P00
P01
P02
P03
P10
P11
P12
P13
SYNC
SIRQ
IRQ
SBT
SBO
SBI
RST
VREF1 (3V)
P80
P81
P82
P83
VREF 2 (2V)
PAA
PAB
PBA
PBB
P20
P21
P22
P23
P30
P31
VDD
OSC 1
OSC 2
P52
P51
P50
P73
P72
P71
P70
P63
P62
P61
P60
PFB
PFA
PEB
PEA
PDB
PDA
PCB
PCA
P93
P92
P91
P90
P43
P42
P41
P40
P33
P32
STOP
FF
REW
PAUSE
PLAY
REC
EDIT
STEP
SIRQ
S-CLK
SD-OUT
SD-IN
RESET
REVERSE
REM 19
REM 30
REM 33
AUDIO DUB
EJECT
SERVO LOCK
CASSET IN
PAUSE - H
AUDIO - H
REW - H
FF - H
PLAY - H
REC - H
REV COUNT
START - H
R6604 10K
R6605 10K
R6606 10K
R6607 10K
R6608 10K
R6609 10K
R6610 10K
R6611 10K
R6612 10K
R6616 1200
R6617 470
R6618 1000
C6610 6V47
C6613 0.0033
R6619 10K
R6620 10K
R6621 10K
R6622 10K
R6623 10K
R6624 10K
R6625 1M
X6601
EF0FC3584A5
OSC
C6611 0.1
C6612 6.3V100
L6601 100μH
+5V
IC6603
AN90B22
RA6603 2.7K X8
RA6602 10K X10
CA6602 10000P X8
CA6601 1000P X8
CA6603 1000P X8
RA6601 10K X6
C6601 0.01
C6602 0.01
R6601 3.9 (1/2W)
+12V
R6602 5600
C6603 390P
R6603 15K
C6604 0.01
Q6601 2SD636
C6605 16V100
C6607 0.01
C6606 6.3V 100
Q6602 2SD636
R6613 15K
R6614 15K
R6615 470
R6628 10K
R6629 10K
QR6609 UN1211
10K
R6627 10K
Q6603 2SD636
R6626 4700
IC6602
MN1280 - R (RESET)
V 1
V 2
OUTPUT CIRCUIT
POWER VOLTAGE DET.
C6608 6V33
C6609 0.1
2
3
4
5
6
7
8
9
10

SUB VIDEO (4) C.B.A. (DIGITAL SUB) (VEP03899B)

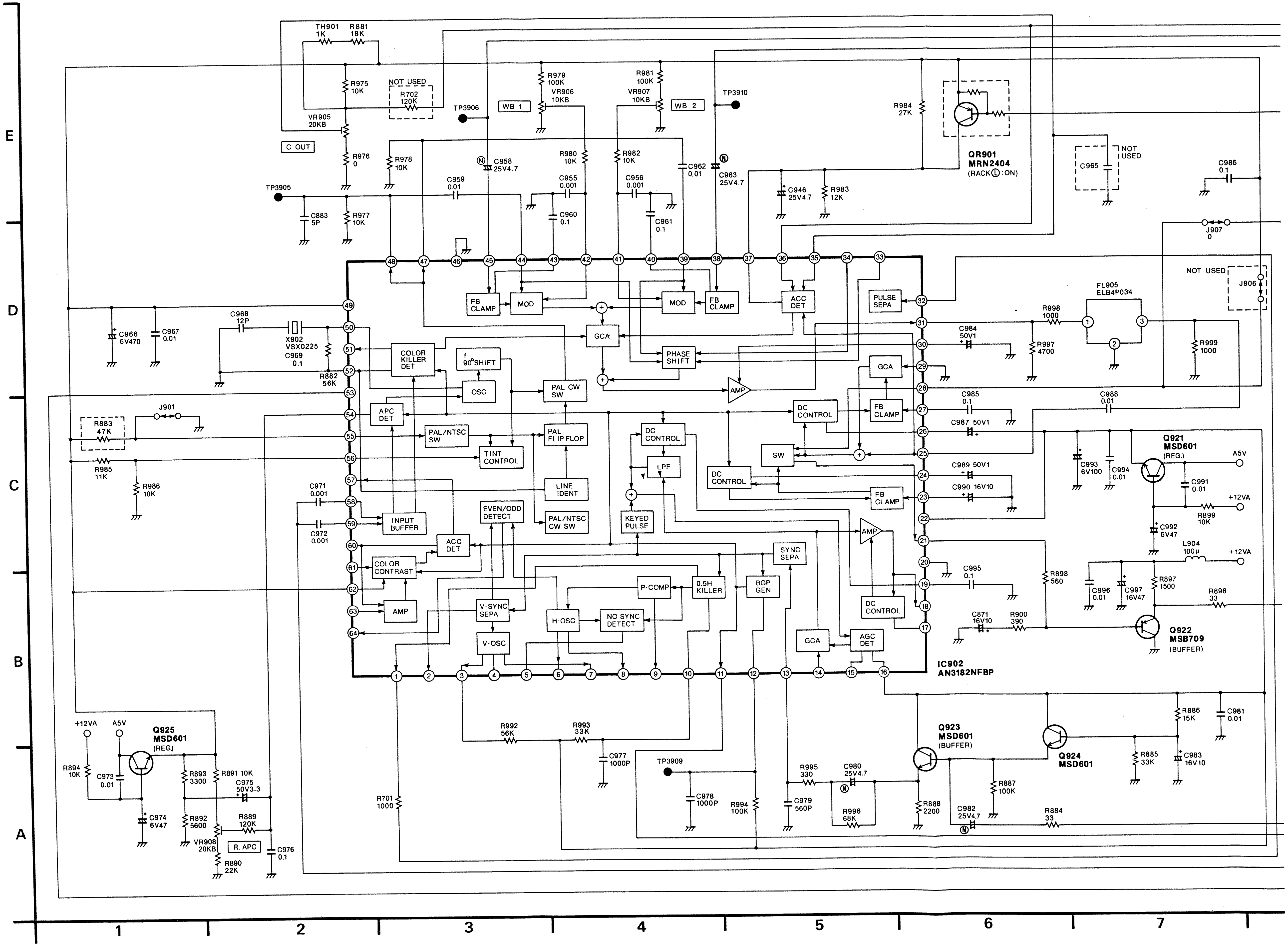
SUB VIDEO (4) C.B.A. (DIGITAL SUB) (VEP03899B)


B
A
1
2
3
(FOIL SIDE)
(COMPONENT SIDE)
DIGITAL SUB
REF.NO.3000 SERIES
VEP03899
▲NTP-N17H-T
VR906 R-APC
TP910
TP905
TP906
TP909
TPG902
IC902
QR901
P3893
FL905
VR905 C OUT
VR906 WB1
VR907 WB2
X902
L904
Q922
Q923
Q924
Q925

SUB VIDEO (4) C.B.A.	
Transistor	
Q3921	A-2 Ⓒ
Q3922	B-1 Ⓕ
Q3923	A-2 Ⓕ
Q3924	A-2 Ⓕ
Q3925	B-2 Ⓕ
Transistor & Resistor	
QR3901	A-1 Ⓕ
Integrated Circuit	
IC3902	A-3 Ⓒ
Test Point	
TP3905	B-1 Ⓕ
TP3905	B-3 Ⓒ
TP3906	B-1 Ⓕ
TP3906	B-3 Ⓒ
TP3909	A-2 Ⓕ
TP3909	A-2 Ⓒ
TP3910	B-1 Ⓕ
TP3910	B-3 Ⓒ
TPG3902	A-1 Ⓕ
TPG3902	A-3 Ⓒ
Adjustment	
VR3905	A-1 Ⓕ
VR3905	A-3 Ⓒ
VR3906	A-1 Ⓕ
VR3906	A-3 Ⓒ
VR3907	A-1 Ⓕ
VR3907	A-3 Ⓒ
VR3908	B-1 Ⓕ
VR3908	B-3 Ⓒ
Connector	
P3893	B-2 Ⓕ
P3893	B-2 Ⓒ

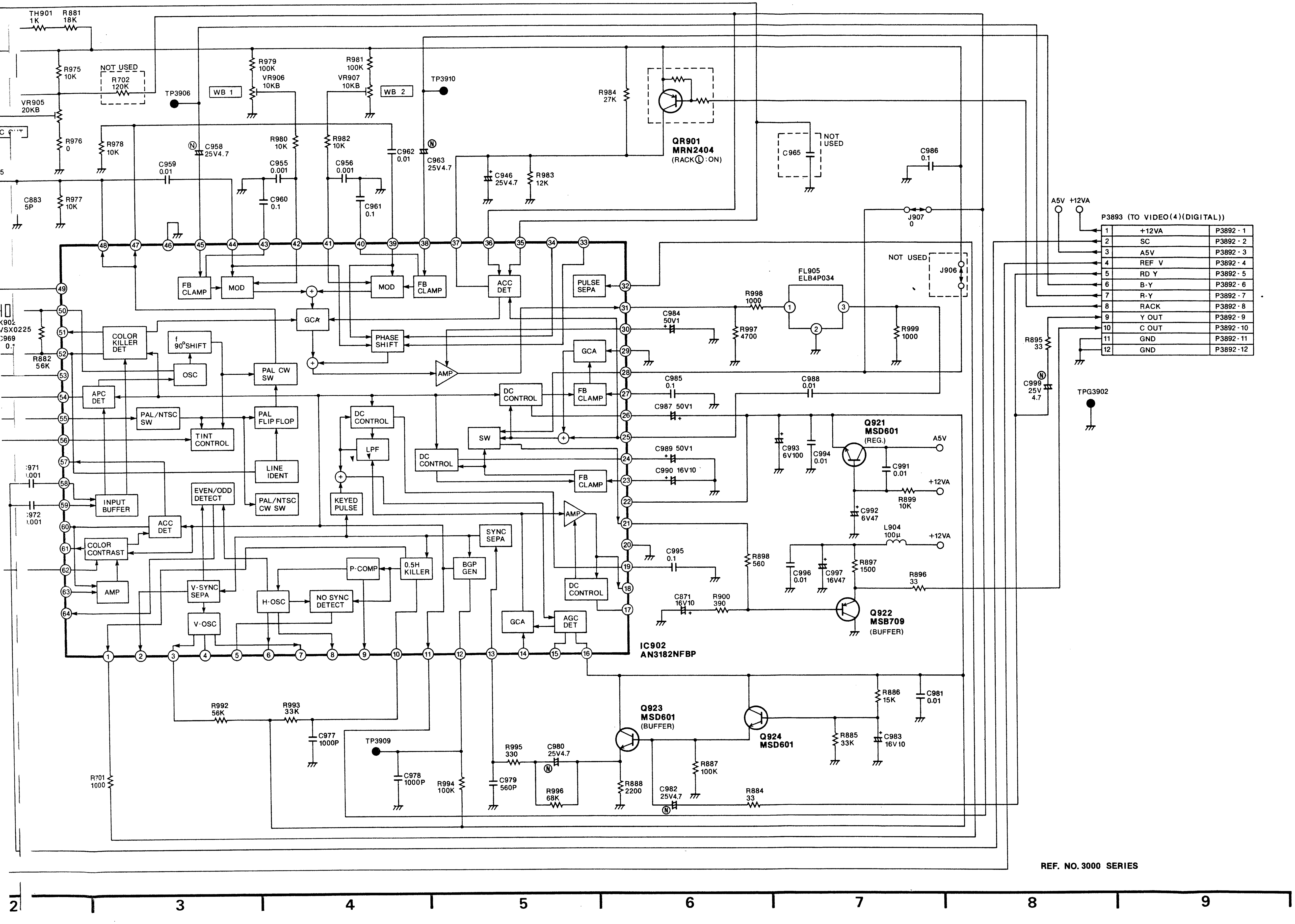
ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

SUB VIDEO (4) (DIGITAL SUB) SCHEMATIC DIAGRAM



TH901 1K
R881 18K
R975 10K
NOT USED
R702 120K
VR905 20KB
C OUT
R976 0
TP3905
C883 5P
R977 10K
R978 10K
C959 0.01
TP3906
C958 25V4.7
WB 1
R979 100K
VR906 10KB
R980 10K
C955 0.001
C960 0.1
R981 100K
VR907 10KB
WB 2
R982 10K
C956 0.001
C961 0.1
C962 0.01
C963 25V4.7
TP3910
R984 27K
QR901 MRN2404 (RACK Ⓛ:ON)
C946 25V4.7
R983 12K
C965
NOT USED
C986 0.1
J907 0
NOT USED
J906
FL905 ELB4P034
R998 1000
R997 4700
R999 1000
C984 50V1
C985 0.1
C988 0.01
C987 50V1
C993 6V100
C994 0.01
Q921 MSD601 (REG.)
A5V
C991 0.01
+12VA
R899 10K
C992 6V47
L904 100µ
+12VA
C989 50V1
C990 16V10
C995 0.1
R898 560
C996 0.01
C997 16V47
R897 1500
R896 33
C871 16V10
R900 390
Q922 MSB709 (BUFFER)
IC902 AN3182NFBP
C966 6V470
C967 0.01
C968 12P
X902 VSX0225
C969 0.1
R882 56K
J901
R883 47K
R985 11K
R986 10K
C971 0.001
C972 0.001
FB CLAMP
MOD
GCA
MOD
FB CLAMP
ACC DET
PULSE SEPA
COLOR KILLER DET
f 90°SHIFT
PHASE SHIFT
GCA
OSC
PAL CW SW
AMP
APC DET
PAL/NTSC SW
TINT CONTROL
PAL FLIP FLOP
DC CONTROL
DC CONTROL
FB CLAMP
SW
LPF
DC CONTROL
FB CLAMP
LINE IDENT
INPUT BUFFER
EVEN/ODD DETECT
PAL/NTSC CW SW
KEYED PULSE
AMP
ACC DET
COLOR CONTRAST
SYNC SEPA
P-COMP
0.5H KILLER
BGP GEN
AMP
V-SYNC SEPA
H-OSC
NO SYNC DETECT
V-OSC
DC CONTROL
GCA
AGC DET
+12VA
A5V
Q925 MSD601 (REG)
R894 10K
C973 0.01
C974 6V47
R893 3300
R891 10K
C975 50V3.3
R892 5600
R889 120K
VR908 20KB
R. APC
C976 0.1
R890 22K
R701 1000
R992 56K
R993 33K
C977 1000P
TP3909
C978 1000P
R994 100K
R995 330
C980 25V4.7
C979 560P
R996 68K
Q923 MSD601 (BUFFER)
R888 2200
C982 25V4.7
R887 100K
R884 33
Q924 MSD601
R886 15K
C981 0.01
R885 33K
C983 16V10
E
D
C
B
A
1
2
3
4
5
6
7

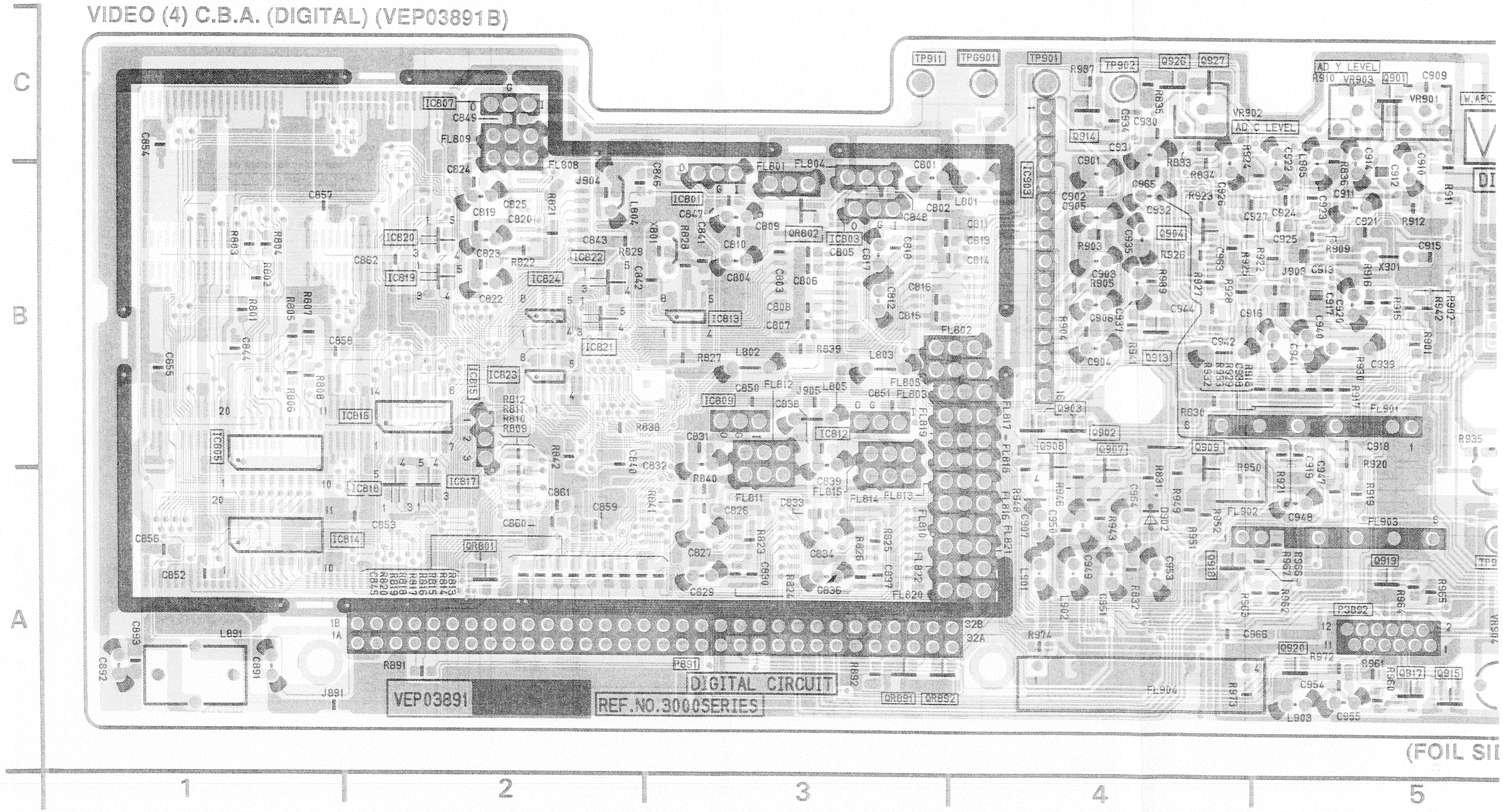
) SCHEMATIC DIAGRAM

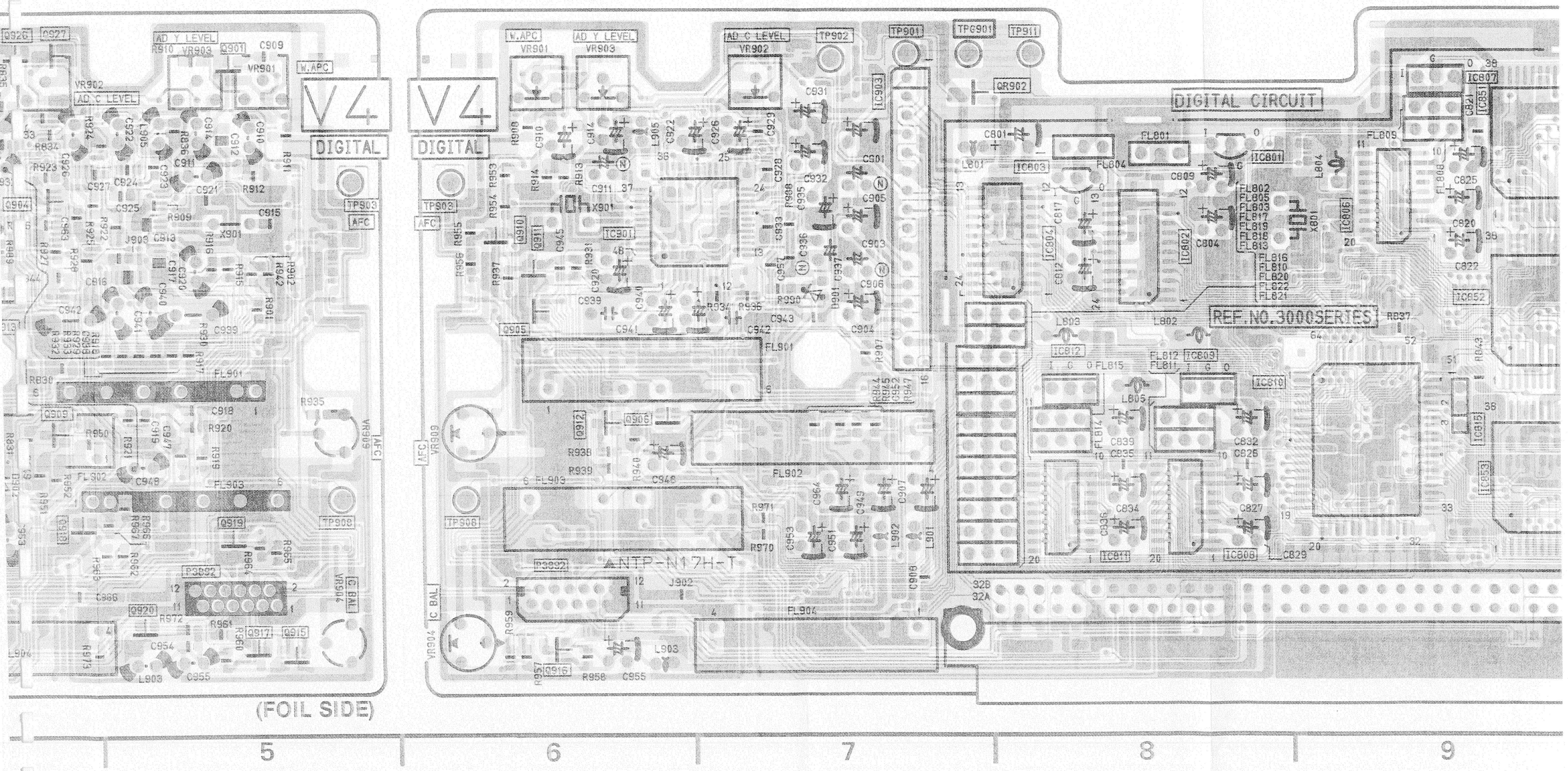

TH901 1K
R881 18K
R975 10K
NOT USED
R702 120K
VR905 20KB
R976 0
R977 10K
C883 5P
R978 10K
C959 0.01
TP3906
R979 100K
VR906 10KB
WB 1
C958 25V4.7
R980 10K
C955 0.001
C960 0.1
R981 100K
VR907 10KB
WB 2
R982 10K
C956 0.001
C961 0.1
C962 0.01
TP3910
C963 25V4.7
C946 25V4.7
R983 12K
R984 27K
QR901
MRN2404
(RACK Ⓛ : ON)
C965
NOT USED
C986 0.1
J907 0
NOT USED
J906
FL905 ELB4P034
R998 1000
R997 4700
R999 1000
C984 50V1
C985 0.1
C987 50V1
C988 0.01
C989 50V1
C990 16V10
C993 6V100
C994 0.01
Q921 MSD601 (REG.)
A5V
C991 0.01
+12VA
R899 10K
C992 6V47
L904 100μ
C995 0.1
R898 560
C996 0.01
C997 16V47
R897 1500
R896 33
C871 16V10
R900 390
Q922 MSB709 (BUFFER)
IC902 AN3182NFBP
FB CLAMP
MOD
GCA
PHASE SHIFT
ACC DET
PULSE SEPA
COLOR KILLER DET
f 90° SHIFT
OSC
PAL CW SW
AMP
APC DET
PAL/NTSC SW
PAL FLIP FLOP
TINT CONTROL
DC CONTROL
SW
LPF
LINE IDENT
INPUT BUFFER
EVEN/ODD DETECT
PAL/NTSC CW SW
KEYED PULSE
ACC DET
COLOR CONTRAST
SYNC SEPA
P-COMP
0.5H KILLER
BGP GEN
V-SYNC SEPA
H-OSC
NO SYNC DETECT
V-OSC
AGC DET
R882 56K
R992 56K
R993 33K
C977 1000P
TP3909
C978 1000P
R994 100K
R701 1000
R995 330
C980 25V4.7
C979 560P
R996 68K
Q923 MSD601 (BUFFER)
R888 2200
C982 25V4.7
R887 100K
Q924 MSD601
R884 33
R885 33K
R886 15K
C981 0.01
C983 16V10
A5V +12VA
R895 33
C999 25V 4.7
TPG3902
P3893 (TO VIDEO(4)(DIGITAL))
2
3
4
5
6
7
8
9

1	+12VA	P3892 - 1
2	SC	P3892 - 2
3	A5V	P3892 - 3
4	REF V	P3892 - 4
5	RD Y	P3892 - 5
6	B-Y	P3892 - 6
7	R-Y	P3892 - 7
8	RACK	P3892 - 8
9	Y OUT	P3892 - 9
10	C OUT	P3892 - 10
11	GND	P3892 - 11
12	GND	P3892 - 12

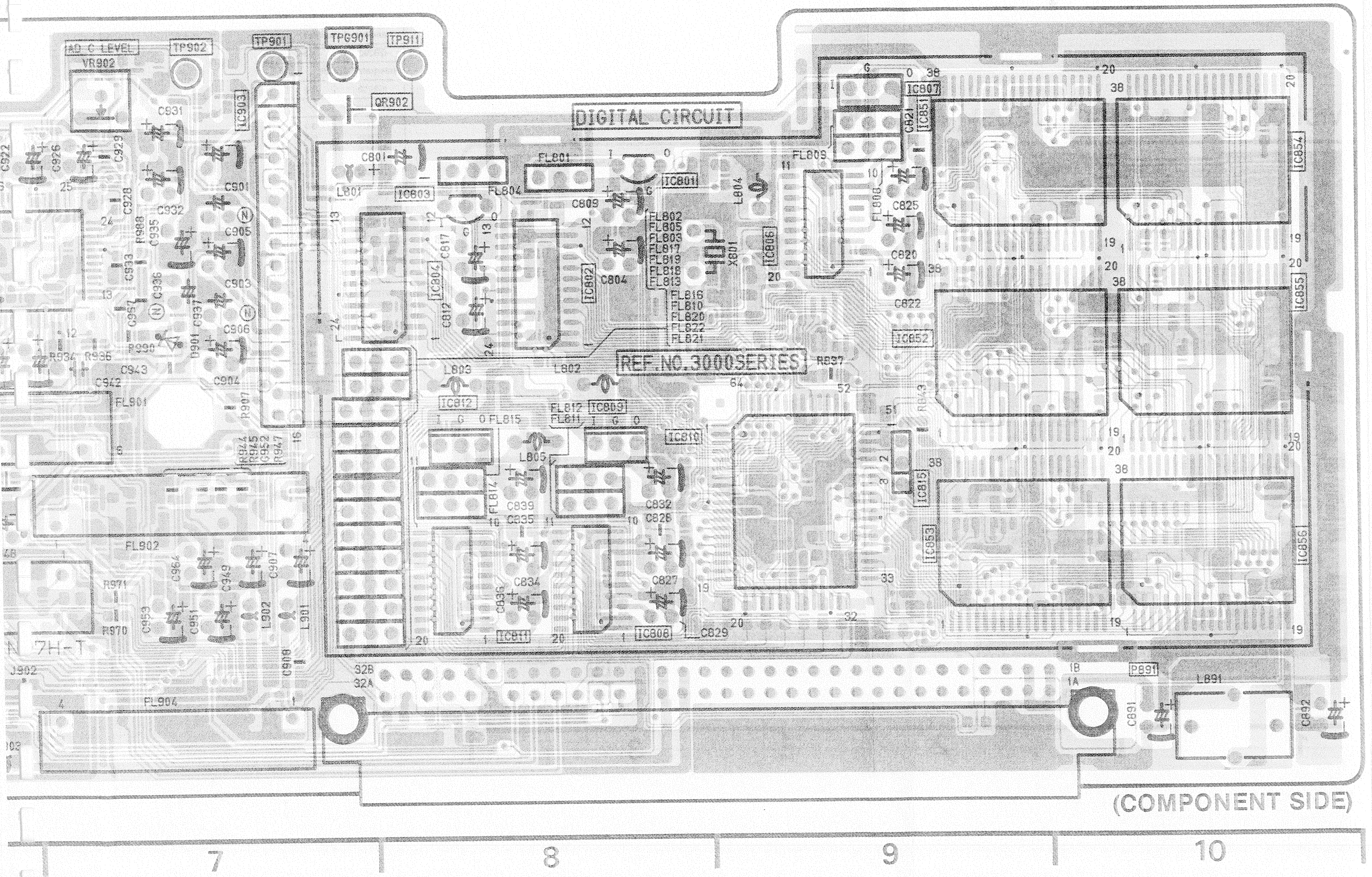
REF. NO. 3000 SERIES

VIDEO (4) C.B.A. (DIGITAL) (VEP03891B)


VIDEO (4) C.B.A. (DIGITAL) (VEP03891B)
C
B
A
1
2
3
4
5
DIGITAL CIRCUIT
VEP03891
REF.NO.3000SERIES
AD Y LEVEL
AD C LEVEL
W.APC
(FOIL SID


V4
DIGITAL
V4
DIGITAL
DIGITAL CIRCUIT
REF.NO.3000SERIES
▲NTP-N17H-T
AD Y LEVEL
AD C LEVEL
W.APC
AFC
C BAL
VR901
VR902
VR903
VR904
VR909
TP901
TP902
TP903
TP908
TP911
TPG901
QR902
IC801
IC802
IC803
IC804
IC806
IC807
IC808
IC809
IC810
IC811
IC812
IC815
IC851
IC852
IC853
IC901
IC903
X801
X901
FL801
FL804
FL805
FL809
FL901
FL902
FL903
FL904
P3892
J902
Q905
Q906
Q910
Q911
Q912
Q915
Q916
Q917
Q919
Q920
L901
L902
L903
L905
D901
R937
R938
R939
R940
R953
R954
R955
R956
R957
R958
R959
R970
R971
C939
C941
C942
C943
C945
C948
C949
C951
C953
C955
C964
5
6
7
8
9

(FOIL SIDE)

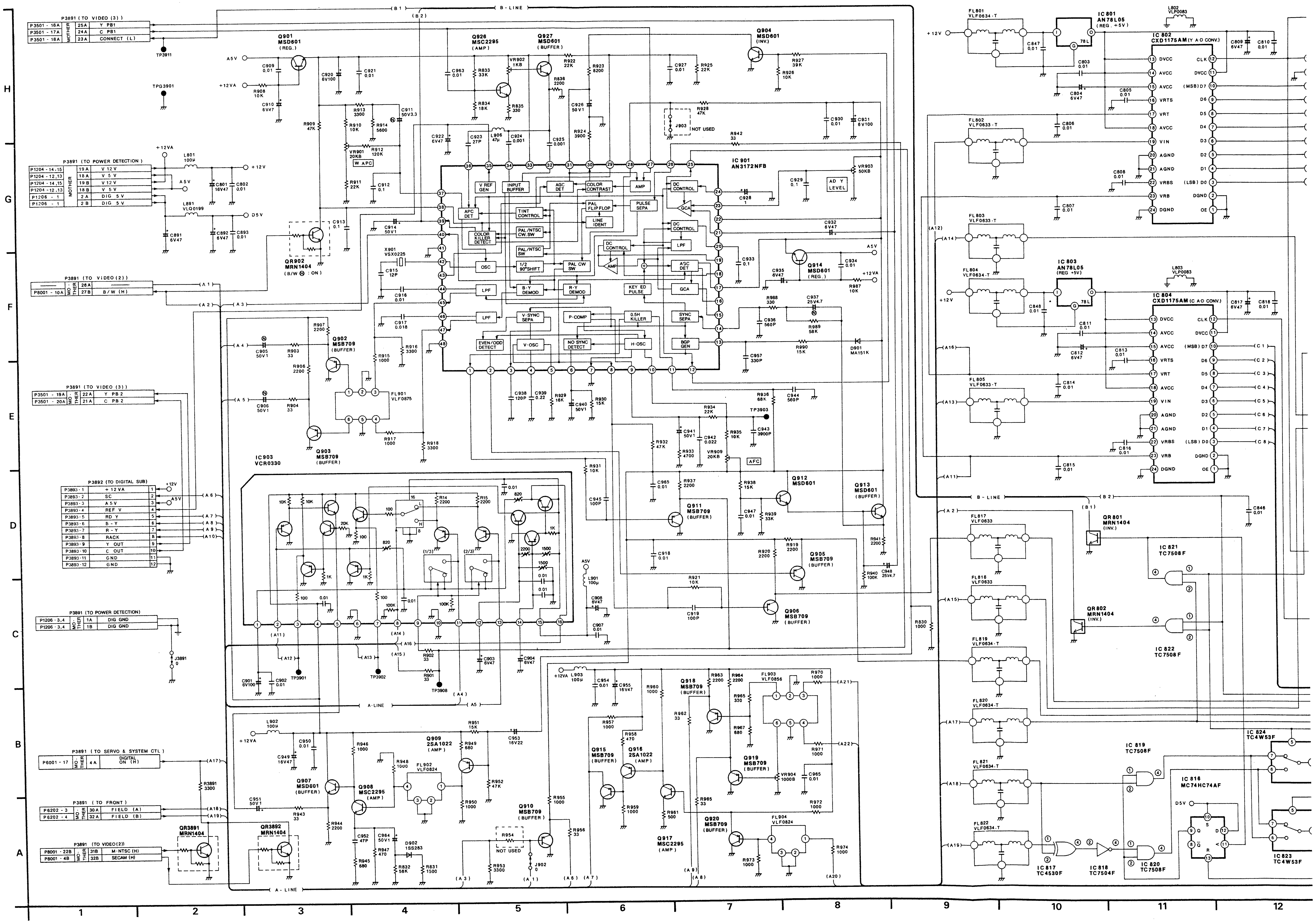

DIGITAL CIRCUIT
REF.NO.3000SERIES
TP902
TP901
TPG901
TP911
VR902
QR902
IC803
IC801
IC804
IC802
IC806
IC807
IC851
IC852
IC854
IC855
IC856
IC853
IC812
IC809
IC810
IC811
IC808
IC815
FL901
FL902
FL904
LB91
PB91
J902
(COMPONENT SIDE)
7
8
9
10

VIDEO (4) C.B.A.

Transistor		
Q3901	B-5	Ⓕ
Q3902	B-4	Ⓕ
Q3903	B-4	Ⓕ
Q3903	B-4	Ⓕ
Q3905	B-6	Ⓒ
Q3906	B-6	Ⓒ
Q3907	B-4	Ⓕ
Q3908	B-4	Ⓕ
Q3909	B-4	Ⓕ
Q3910	B-6	Ⓒ
Q3911	B-6	Ⓒ
Q3912	B-6	Ⓒ
Q3913	B-4	Ⓕ
Q3914	B-4	Ⓕ
Q3915	A-5	Ⓕ
Q3916	A-6	Ⓒ
Q3917	A-5	Ⓕ
Q3918	A-4	Ⓕ
Q3919	A-5	Ⓕ
Q3920	A-5	Ⓕ
Q3926	B-4	Ⓕ
Q3927	B-4	Ⓕ
Transistor & Resistor		
QR3801	A-2	Ⓕ
QR3802	B-3	Ⓕ
QR3891	A-3	Ⓕ
QR3892	A-3	Ⓕ
QR3902	B-8	Ⓒ
Integrated Circuit		
IC3801	B-3	Ⓕ
IC3801	B-8	Ⓒ
IC3802	B-8	Ⓒ
IC3803	B-3	Ⓕ
IC3803	B-8	Ⓒ
IC3804	B-8	Ⓒ
IC3805	B-1	Ⓕ
IC3806	B-9	Ⓒ
IC3807	B-2	Ⓕ
IC3807	B-9	Ⓒ
IC3808	A-8	Ⓒ
IC3809	B-3	Ⓕ
IC3809	B-8	Ⓒ
IC3810	B-8	Ⓒ
IC3811	A-8	Ⓒ
IC3812	B-3	Ⓕ
IC3812	B-8	Ⓒ
IC3813	B-3	Ⓕ
IC3814	A-1	Ⓕ
IC3815	B-2	Ⓕ
IC3815	B-9	Ⓒ
IC3816	B-2	Ⓕ
IC3817	A-2	Ⓕ
IC3818	A-2	Ⓕ
IC3819	B-2	Ⓕ
IC3820	B-2	Ⓕ
IC3821	B-2	Ⓕ
IC3822	B-2	Ⓕ
IC3823	B-2	Ⓕ
IC3824	B-2	Ⓕ
IC3851	B-9	Ⓒ
IC3852	B-9	Ⓒ
IC3853	A-9	Ⓒ
IC3854	B-10	Ⓒ
IC3855	B-10	Ⓒ
IC3856	A-10	Ⓒ
IC3901	B-6	Ⓒ
IC3903	B-4	Ⓕ
IC3903	B-7	Ⓒ
Test Point		
TP3901	B-4	Ⓕ
TP3901	B-7	Ⓒ
TP3902	B-4	Ⓕ
TP3902	B-7	Ⓒ
TP3903	B-5	Ⓕ
TP3903	B-6	Ⓒ
TP3908	A-5	Ⓕ
TP3908	A-6	Ⓒ
TP3911	B-3	Ⓕ
TP3911	B-8	Ⓒ
TPG3901	B-4	Ⓕ
TPG3901	B-7	Ⓒ
Adjustment		
VR3901	B-5	Ⓕ
VR3901	B-6	Ⓒ
VR3902	B-4	Ⓕ
VR3902	B-7	Ⓒ
VR3903	B-5	Ⓕ
VR3903	B-6	Ⓒ
VR3904	A-5	Ⓕ
VR3904	A-6	Ⓒ
VR3909	A-5	Ⓕ
VR3909	A-6	Ⓒ
Connector		
P3891	A-3	Ⓕ
P3891	A-10	Ⓒ
P3892	A-5	Ⓕ
P3892	A-6	Ⓒ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

VIDEO (4) (DIGITAL) SCHEMATIC DIAGRAM



B-LINE
A-LINE
P3891 (TO VIDEO (3))
P3891 (TO POWER DETECTION)
P3891 (TO VIDEO (2))
P3892 (TO DIGITAL SUB)
P3891 (TO SERVO & SYSTEM CTL)
P3891 (TO FRONT)
Q901 MSD601 (REG.)
Q926 MSC2295 (AMP)
Q927 MSD601 (BUFFER)
Q904 MSD601 (INV.)
Q9902 MRN1404 (B/W ON)
Q902 MSB709 (BUFFER)
Q903 MSB709 (BUFFER)
IC901 AN3172NFB
IC903 VCR0330
Q911 MSB709 (BUFFER)
Q912 MSD601
Q913 MSD601 (BUFFER)
Q914 MSD601 (REG.)
Q905 MSB709 (BUFFER)
Q906 MSB709 (BUFFER)
Q907 MSD601 (BUFFER)
Q908 MSC2295 (AMP)
Q909 2SA1022 (AMP)
Q910 MSB709 (BUFFER)
Q915 MSB709 (BUFFER)
Q916 2SA1022 (AMP)
Q917 MSC2295 (AMP)
Q918 MSB709 (BUFFER)
Q919 MSB709 (BUFFER)
Q920 MSB709 (BUFFER)
QR3891 MRN1404
QR3892 MRN1404
IC801 AN78L05 (REG. +5V)
IC802 CXD1175AM (Y A-D CONV.)
IC803 AN78L05 (REG +5V)
IC804 CXD1175AM (C A-D CONV.)
QR801 MRN1404 (INV.)
QR802 MRN1404 (INV.)
IC821 TC7508F
IC822 TC7508F
IC819 TC7508F
IC816 MC74HC74AF
IC817 TC4530F
IC818 TC7504F
IC820 TC7508F
IC824 TC4W53F
IC823 TC4W53F
FL801 VLF0634-T
FL802 VLF0633-T
FL803 VLF0633-T
FL804 VLF0634-T
FL805 VLF0633-T
FL817 VLF0633
FL818 VLF0633
FL819 VLF0634-T
FL820 VLF0634-T
FL821 VLF0634-T
FL822 VLF0634-T
FL901 VLF0875
FL902 VLF0824
FL903 VLF0856
FL904 VLF0824
X901 VSX0225
D901 MA151K
D902 1SS283
TP3911
TP3901
TP3902
TP3903
TP3908
H
G
F
E
D
C
B
A
1
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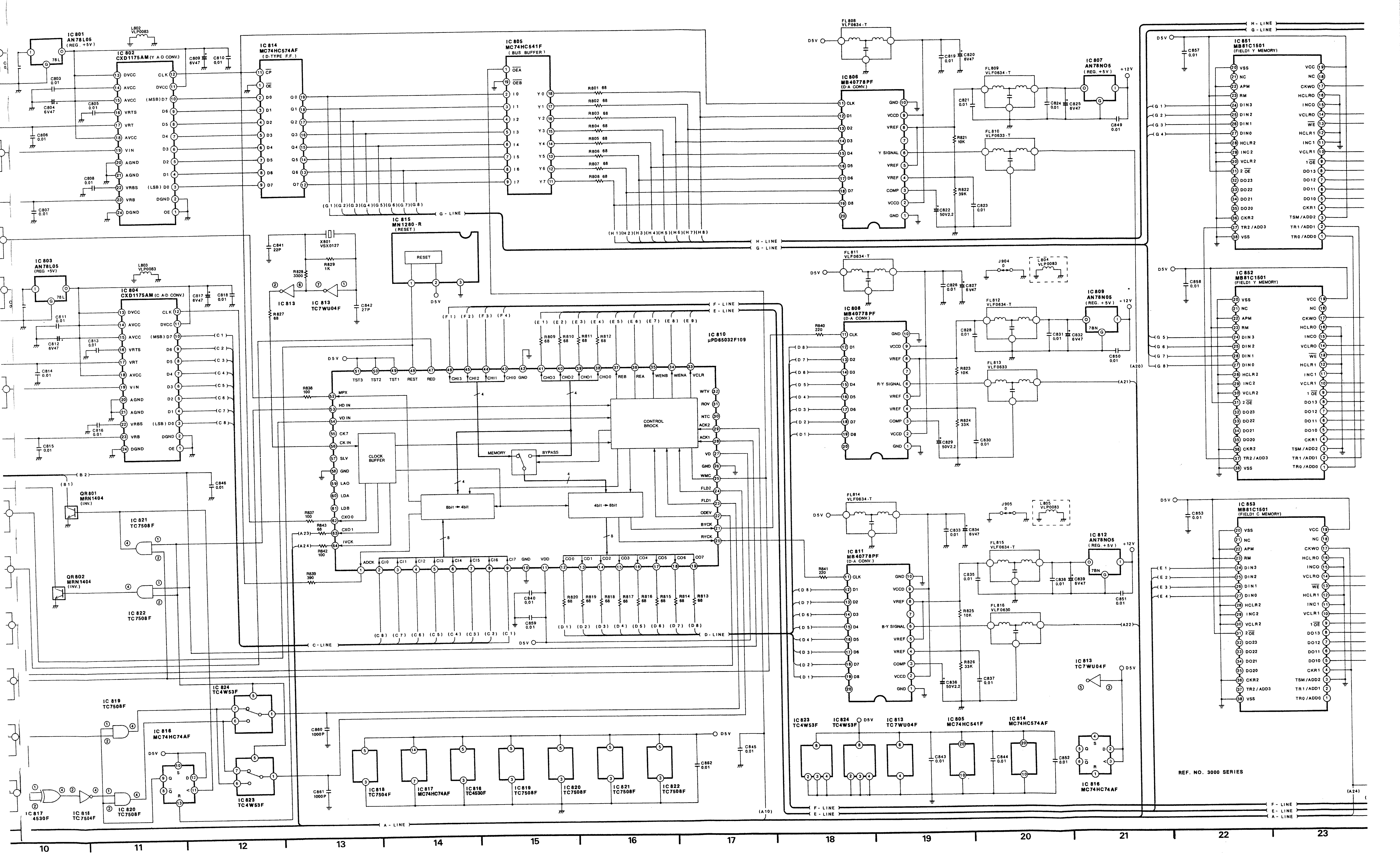
12


IC 801 AN78L05 (REG. +5V)
L802 VLP0083
IC 802 CXD1175AM (Y A-D CONV.)
IC 814 MC74HC574AF (D-TYPE F.F.)
IC 805 MC74HC541F (BUS BUFFER)
R801 68
R802 68
R803 68
R804 68
R805 68
R806 68
R807 68
R808 68
FL808 VLF0634-T
IC 806 MB40778PF (D-A CONV.)
FL809 VLF0634-T
IC 807 AN78N05 (REG. +5V)
FL810 VLF0633-T
R821 10K
R822 39K
C822 50V2.2
H-LINE
G-LINE
IC 851 MB81C1501 (FIELD1 Y MEMORY)
IC 803 AN78L05 (REG +5V)
L803 VLP0083
IC 804 CXD1175AM (C A-D CONV.)
X801 VSX0127
R829 1K
R828 3300
IC 815 MN1280-R (RESET)
RESET
IC 813
IC 813 TC7WU04F
R827 68
F-LINE
E-LINE
R809 68
R810 68
R811 68
R812 68
IC 810 μPD65032F109
CONTROL BROCK
CLOCK BUFFER
MEMORY
BYPASS
8bit → 4bit
4bit → 8bit
R836 100
R837 100
R843 68
R842 100
R839 390
R820 68
R819 68
R818 68
R817 68
R816 68
R815 68
R814 68
R813 68
C-LINE
D-LINE
FL811 VLF0634-T
J904
L804 VLP0083
IC 808 MB40778PF (D-A CONV.)
R840 220
FL812 VLF0634-T
IC 809 AN78N05 (REG. +5V)
FL813 VLF0633
R823 10K
R824 33K
C829 50V2.2
IC 852 MB81C1501 (FIELD1 Y MEMORY)
QR801 MRN1404 (INV.)
IC 821 TC7508F
QR802 MRN1404 (INV.)
IC 822 TC7508F
FL814 VLF0634-T
J905
L805 VLP0083
IC 811 MB40778PF (D-A CONV.)
R841 220
FL815 VLF0634-T
IC 812 AN78N05 (REG. +5V)
FL816 VLF0630
R825 10K
R826 33K
C836 50V2.2
IC 853 MB81C1501 (FIELD1 C MEMORY)
IC 813 TC7WU04F
IC 824 TC4W53F
IC 819 TC7508F
IC 816 MC74HC74AF
IC 823 TC4W53F
IC 817 4530F
IC 818 TC7504F
IC 820 TC7508F
C880 1000P
C861 1000P
IC 818 TC7504F
IC 817 MC74HC74AF
IC 816 TC4530F
IC 819 TC7508F
IC 820 TC7508F
IC 821 TC7508F
IC 822 TC7508F
IC 823 TC4W53F
IC 824 TC4W53F
IC 813 TC7WU04F
IC 805 MC74HC541F
IC 814 MC74HC574AF
IC 816 MC74HC74AF
REF. NO. 3000 SERIES
A-LINE
D5V
+12V
10
11
12
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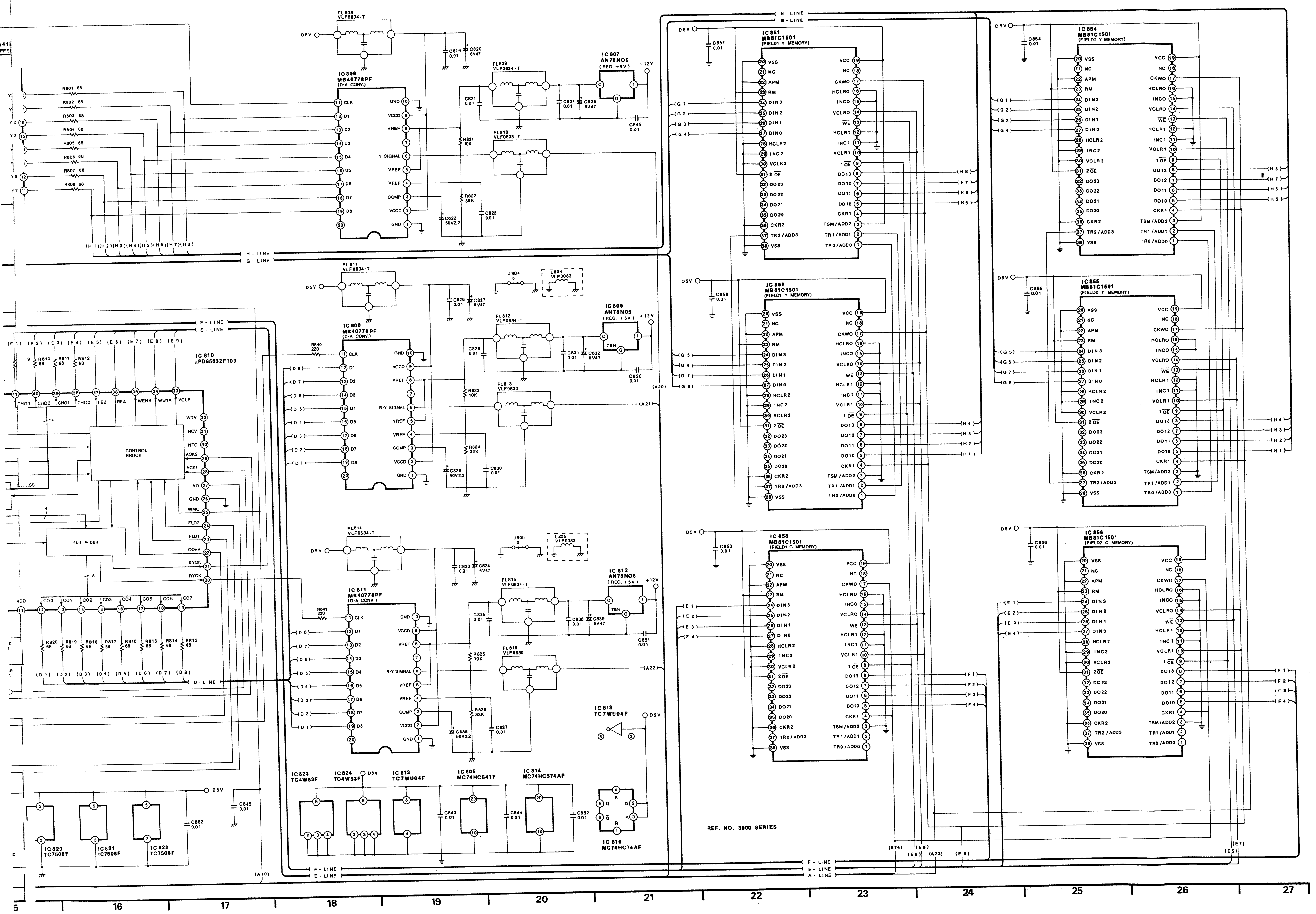
23


FL808 VLF0634-T
D5V
C819 0.01
C820 6V47
IC806 MB40778PF (D-A CONV.)
CLK
D1
D2
D3
D4
D5
D6
D7
D8
GND
VCCD
VREF
Y SIGNAL
COMP
FL809 VLF0634-T
FL810 VLF0633-T
IC807 AN78N05 (REG. +5V)
+12V
C821 0.01
C824 0.01
C825 6V47
C849 0.01
R821 10K
R822 39K
C822 50V2.2
C823 0.01
R801 68
R802 68
R803 68
R804 68
R805 68
R806 68
R807 68
R808 68
Y2
Y3
Y6
Y7
(H1)(H2)(H3)(H4)(H5)(H6)(H7)(H8)
H-LINE
G-LINE
FL811 VLF0634-T
J904 0
L804 VLP0083
C826 0.01
C827 6V47
FL812 VLF0634-T
IC809 AN78N05 (REG. +5V)
7BN
C828 0.01
C831 0.01
C832 6V47
C850 0.01
IC808 MB40778PF (D-A CONV.)
R840 220
R-Y SIGNAL
FL813 VLF0633
R823 10K
R824 33K
C829 50V2.2
C830 0.01
F-LINE
E-LINE
(E1)(E2)(E3)(E4)(E5)(E6)(E7)(E8)(E9)
R810 68
R811 68
R812 68
IC810 µPD65032F109
CHO3
CHO2
CHO1
CHO0
REB
REA
WENB
WENA
VCLR
WTV
ROV
NTC
ACK2
ACK1
VD
GND
WMC
FLD2
FLD1
ODEV
BYCK
RYCK
CONTROL BROCK
4bit → 8bit
VDD
CO0
CO1
CO2
CO3
CO4
CO5
CO6
CO7
R820 68
R819 68
R818 68
R817 68
R816 68
R815 68
R814 68
R813 68
(D1)(D2)(D3)(D4)(D5)(D6)(D7)(D8)
D-LINE
FL814 VLF0634-T
J905 0
L805 VLP0083
C833 0.01
C834 6V47
IC811 MB40778PF (D-A CONV.)
R841 220
FL815 VLF0634-T
IC812 AN78N05 (REG. +5V)
C835 0.01
C838 0.01
C839 6V47
C851 0.01
FL816 VLF0630
R825 10K
R826 33K
B-Y SIGNAL
C836 50V2.2
C837 0.01
IC813 TC7WU04F
IC823 TC4W53F
IC824 TC4W53F
IC813 TC7WU04F
IC805 MC74HC541F
IC814 MC74HC574AF
C843 0.01
C844 0.01
C852 0.01
IC816 MC74HC74AF
C845 0.01
C862 0.01
IC820 TC7508F
IC821 TC7508F
IC822 TC7508F
(A10)
(A20)
(A21)
(A22)
IC851 MB81C1501 (FIELD1 Y MEMORY)
IC852 MB81C1501 (FIELD1 Y MEMORY)
IC853 MB81C1501 (FIELD1 C MEMORY)
IC854 MB81C1501 (FIELD2 Y MEMORY)
IC855 MB81C1501 (FIELD2 Y MEMORY)
IC856 MB81C1501 (FIELD2 C MEMORY)
C857 0.01
C858 0.01
C853 0.01
C854 0.01
C855 0.01
C856 0.01
VSS
NC
APM
RM
DIN3
DIN2
DIN1
DIN0
HCLR2
INC2
VCLR2
2 OE
DO23
DO22
DO21
DO20
CKR2
TR2/ADD3
VCC
CKWO
HCLRO
INCO
VCLRO
WE
HCLR1
INC1
VCLR1
1 OE
DO13
DO12
DO11
DO10
CKR1
TSM/ADD2
TR1/ADD1
TR0/ADD0
(G1)(G2)(G3)(G4)(G5)(G6)(G7)(G8)
(H1)(H2)(H3)(H4)(H5)(H6)(H7)(H8)
(E1)(E2)(E3)(E4)
(F1)(F2)(F3)(F4)
(A24)(E6)(E8)(A23)(E9)(E7)(E5)
REF. NO. 3000 SERIES
A-LINE
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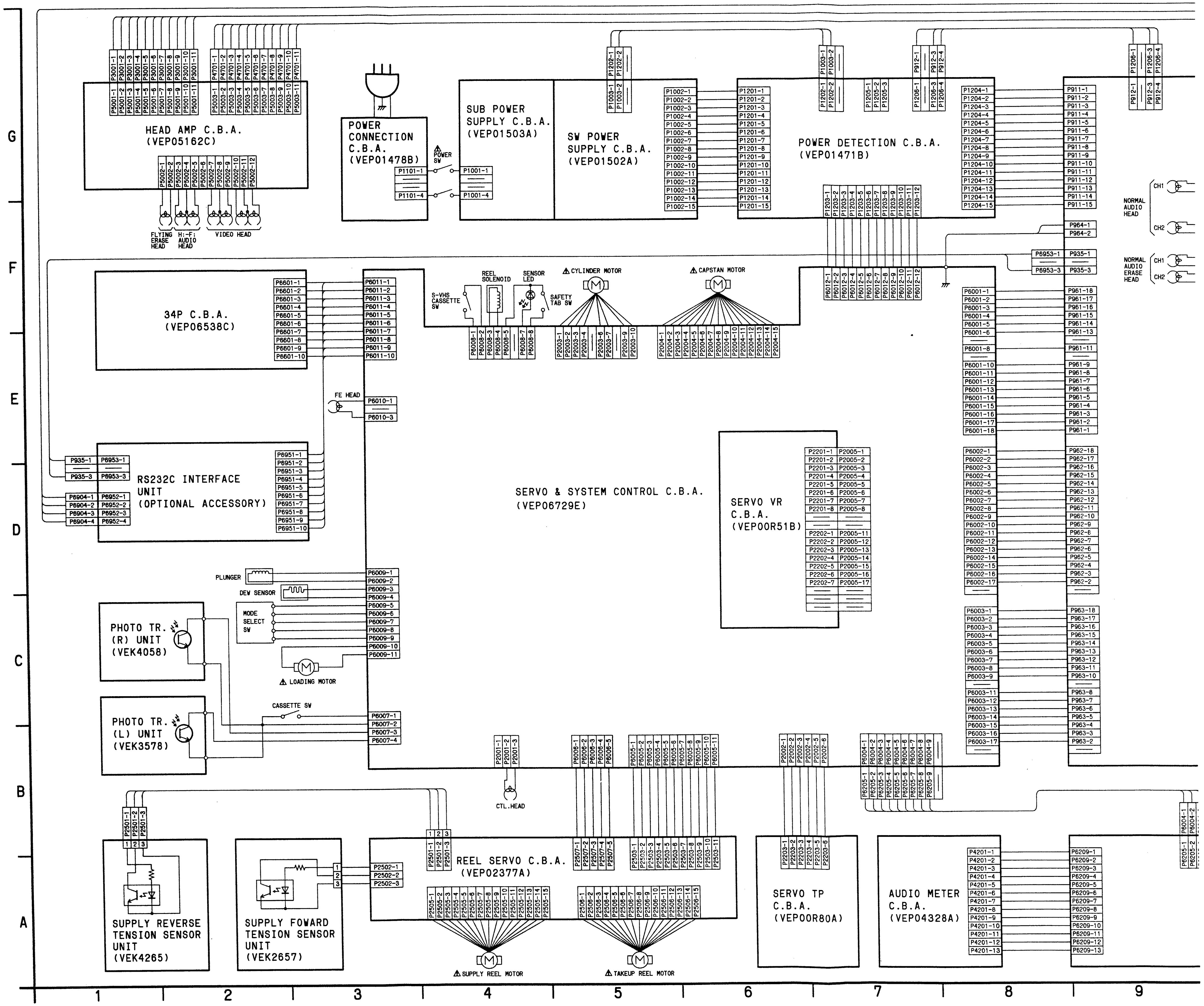
INTERCONNECTION SCHEMATIC DIAGRAM


HEAD AMP C.B.A. (VEP05162C)
FLYING ERASE HEAD
H.-F. AUDIO HEAD
VIDEO HEAD
POWER CONNECTION C.B.A. (VEP01478B)
POWER SW
SUB POWER SUPPLY C.B.A. (VEP01503A)
SW POWER SUPPLY C.B.A. (VEP01502A)
POWER DETECTION C.B.A. (VEP01471B)
NORMAL AUDIO HEAD
CH1
CH2
NORMAL AUDIO ERASE HEAD
34P C.B.A. (VEP06538C)
S-VHS CASSETTE SW
REEL SOLENOID
SENSOR LED
SAFETY TAB SW
CYLINDER MOTOR
CAPSTAN MOTOR
FE HEAD
RS232C INTERFACE UNIT (OPTIONAL ACCESSORY)
SERVO & SYSTEM CONTROL C.B.A. (VEP06729E)
SERVO VR C.B.A. (VEP00R51B)
PLUNGER
DEW SENSOR
MODE SELECT SW
PHOTO TR. (R) UNIT (VEK4058)
LOADING MOTOR
CASSETTE SW
PHOTO TR. (L) UNIT (VEK3578)
CTL.HEAD
SUPPLY REVERSE TENSION SENSOR UNIT (VEK4265)
SUPPLY FOWARD TENSION SENSOR UNIT (VEK2657)
REEL SERVO C.B.A. (VEP02377A)
SUPPLY REEL MOTOR
TAKEUP REEL MOTOR
SERVO TP C.B.A. (VEP00R80A)
AUDIO METER C.B.A. (VEP04328A)
G
F
E
D
C
B
A
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3
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7
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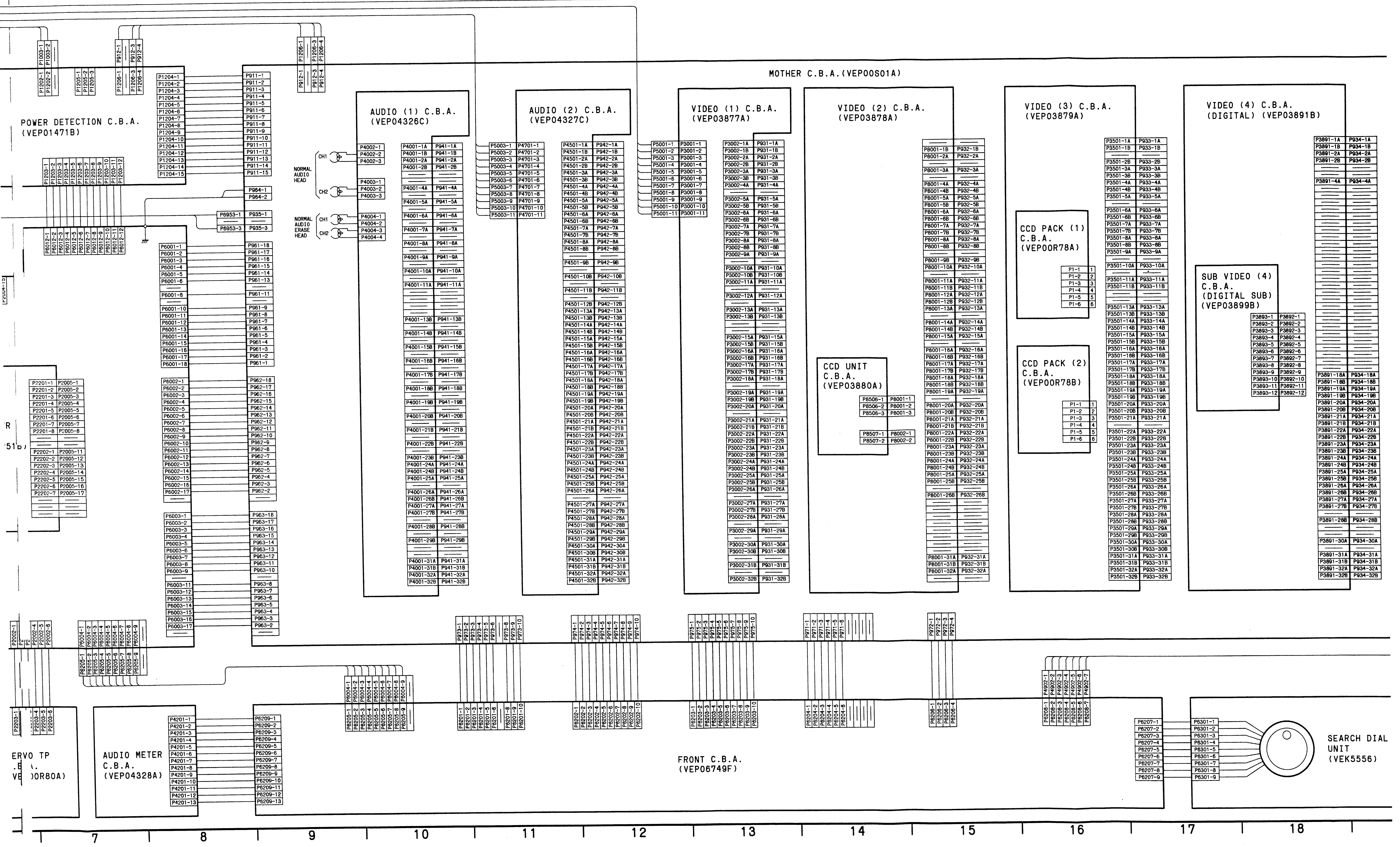
MOTHER C.B.A. (VEP00S01A)
POWER DETECTION C.B.A. (VEP01471B)
AUDIO (1) C.B.A. (VEP04326C)
AUDIO (2) C.B.A. (VEP04327C)
VIDEO (1) C.B.A. (VEP03877A)
VIDEO (2) C.B.A. (VEP03878A)
VIDEO (3) C.B.A. (VEP03879A)
VIDEO (4) C.B.A. (DIGITAL) (VEP03891B)
CCD PACK (1) C.B.A. (VEP00R78A)
CCD PACK (2) C.B.A. (VEP00R78B)
CCD UNIT C.B.A. (VEP03880A)
SUB VIDEO (4) C.B.A. (DIGITAL SUB) (VEP03899B)
NORMAL AUDIO HEAD
NORMAL AUDIO ERASE HEAD
CH1
CH2
AUDIO METER C.B.A. (VEP04328A)
ERVO TP
VE)OR80A)
FRONT C.B.A. (VEP06749F)
SEARCH DIAL UNIT (VEK5556)
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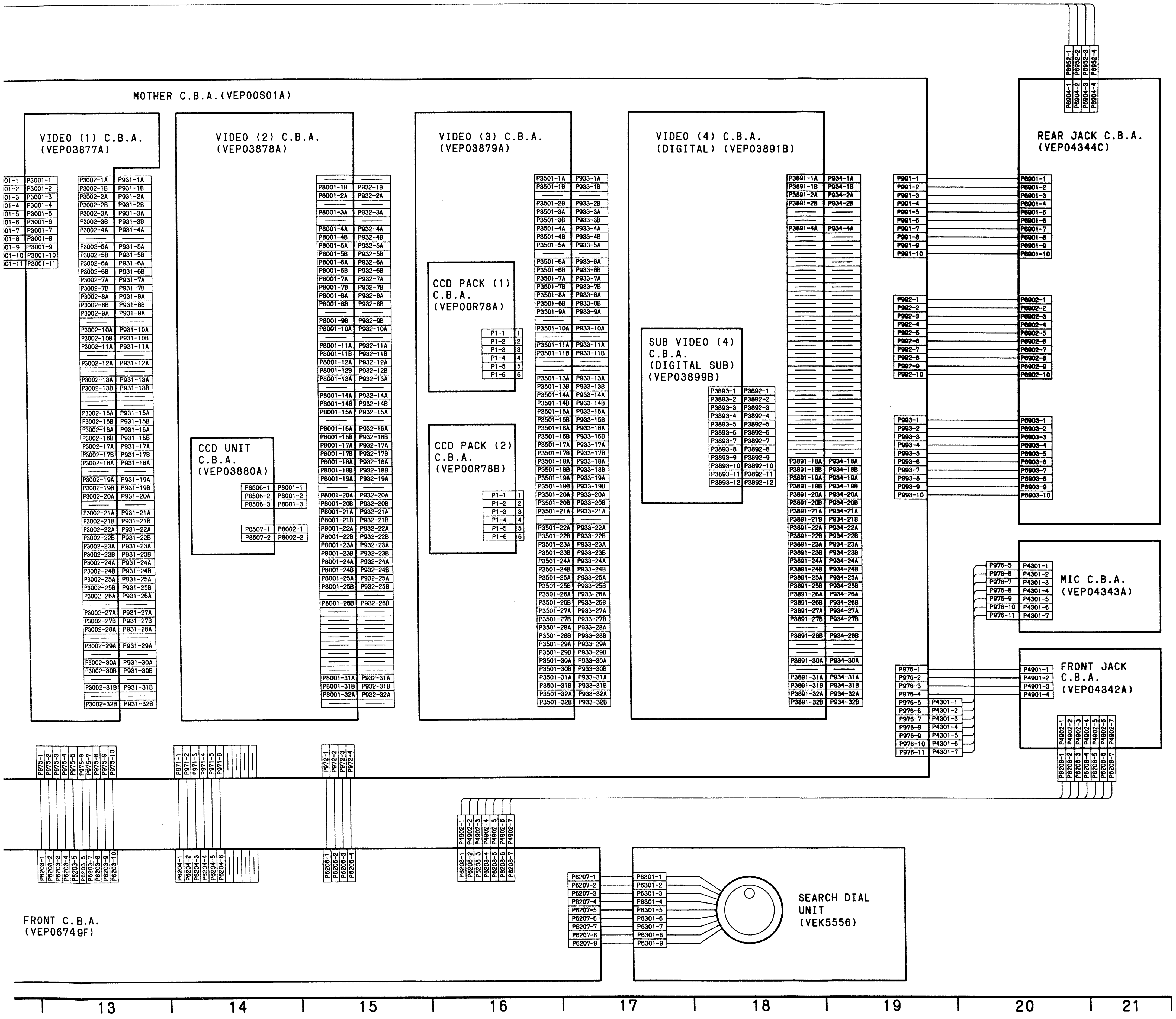

MOTHER C.B.A.(VEP00S01A)
VIDEO (1) C.B.A. (VEP03877A)
VIDEO (2) C.B.A. (VEP03878A)
VIDEO (3) C.B.A. (VEP03879A)
VIDEO (4) C.B.A. (DIGITAL) (VEP03891B)
CCD UNIT C.B.A. (VEP03880A)
CCD PACK (1) C.B.A. (VEP00R78A)
CCD PACK (2) C.B.A. (VEP00R78B)
SUB VIDEO (4) C.B.A. (DIGITAL SUB) (VEP03899B)
REAR JACK C.B.A. (VEP04344C)
MIC C.B.A. (VEP04343A)
FRONT JACK C.B.A. (VEP04342A)
FRONT C.B.A. (VEP06749F)
SEARCH DIAL UNIT (VEK5556)
13
14
15
16
17
18
19
20
21

Section 8

EXPLODED VIEWS
AND
REPLACEMENT PARTS LISTS

CONTENTS

SERVICING FIXTURES & TOOLS LIST PARTS-2

EXPLODED VIEWS PARTS-3

1. Chassis Parts Section PARTS-3
2. Moving Parts Section PARTS-5
3. Cassette Compartment Section PARTS-7
4. Chassis & Frame Section PARTS-8
5. Casing Parts Section PARTS-10
6. Packing Parts Section PARTS-11

MECHANICAL REPLACEMENT PARTS LIST PARTS-4

1. Chassis Parts Section PARTS-4
2. Moving Parts Section PARTS-6
3. Cassette Compartment Section PARTS-6
4. Chassis & Frame Section PARTS-9
5. Casing Parts Section PARTS-9
6. Packing Parts Section PARTS-12

ELECTRICAL REPLACEMENT PARTS LIST PARTS-13

NOTES

1. ● Be sure to make your orders of replacement parts according to this list.
   ● "<R>" in Remark column indicates recommended parts.
   ● "<M>" in Remark column indicates needed in the periodical maintenance.
2. IMPORTANT SAFETY NOTICE
   Components identified by "<!>" have special characteristics important for safety.
   When replacing any of these components, use only the original ones.
   Meaning of symbol "<!>" on this parts list is exactly the same as symbol ⚠on Schematic and Circuit Board Diagrams.
3. Unless otherwise specified ;
   All resistors are in (Ω), K=1,000Ω, M=1,000kΩ.
   All capacitors are in (F), U=10^{-6} F, P=10^{-12} F.
4. ITEM NUMBERS WITH CAPITAL LETER E
   Item numbers with capital leter E (Example:E1, E2,...) in Ref.No. column mean that the parts are listed with the E item numbers in the exploded views.
5. The main assembled parts are shown below C.B.A. marked with "■".
6. When ordering parts, use parts No. only form Part No. column.
7. Printed circuit board assembly with mark (NLA) is no longer available after discontinuation of the product.
8. Abbreviations for parts ;

-- NAME --	-- DESCRIPTION --
C.CAPACITOR	CERAMIC CAPACITOR
C.CAPACITOR CH	CERAMIC CHIP CAPACITOR
E.CAPACITOR	ELECTROLYTIC CAPACITOR
G.CAPACITOR	GLASS CAPACITOR
M.CAPACITOR	MICA CAPACITOR
P.CAPACITOR	PLASTIC FILM CAPACITOR
S.CAPACITOR	SEMI-CONDUCTOR CAPACITOR
T.CAPACITOR	TANTALUM CAPACITOR
TRIMMER	TRIMMER
C.RESISTOR	CARBON RESISTOR
F.RESISTOR	FUSE RESISTOR
M.RESISTOR	METAL OXSIDE RESISTOR
M.RESISTOR CH	METAL OXSIDE CHIP RESISTOR
S.RESISTOR	SOLID RESISTOR
V.RESISTOR	VARIABLE RESISTOR
W.RESISTOR	WIRE WOUND RESISTOR
COMBI. TR-R	TRANSITOR-RESISTOR COMBINATION PARTS
COMBI. R-R	RESISTOR-RESISTOR COMBINATION PARTS
COMBI. C-R-L	CAPACITOR-COIL COMBINATION PARTS
C.B.A.	CIRCUIT BOARD ASSEMBLY

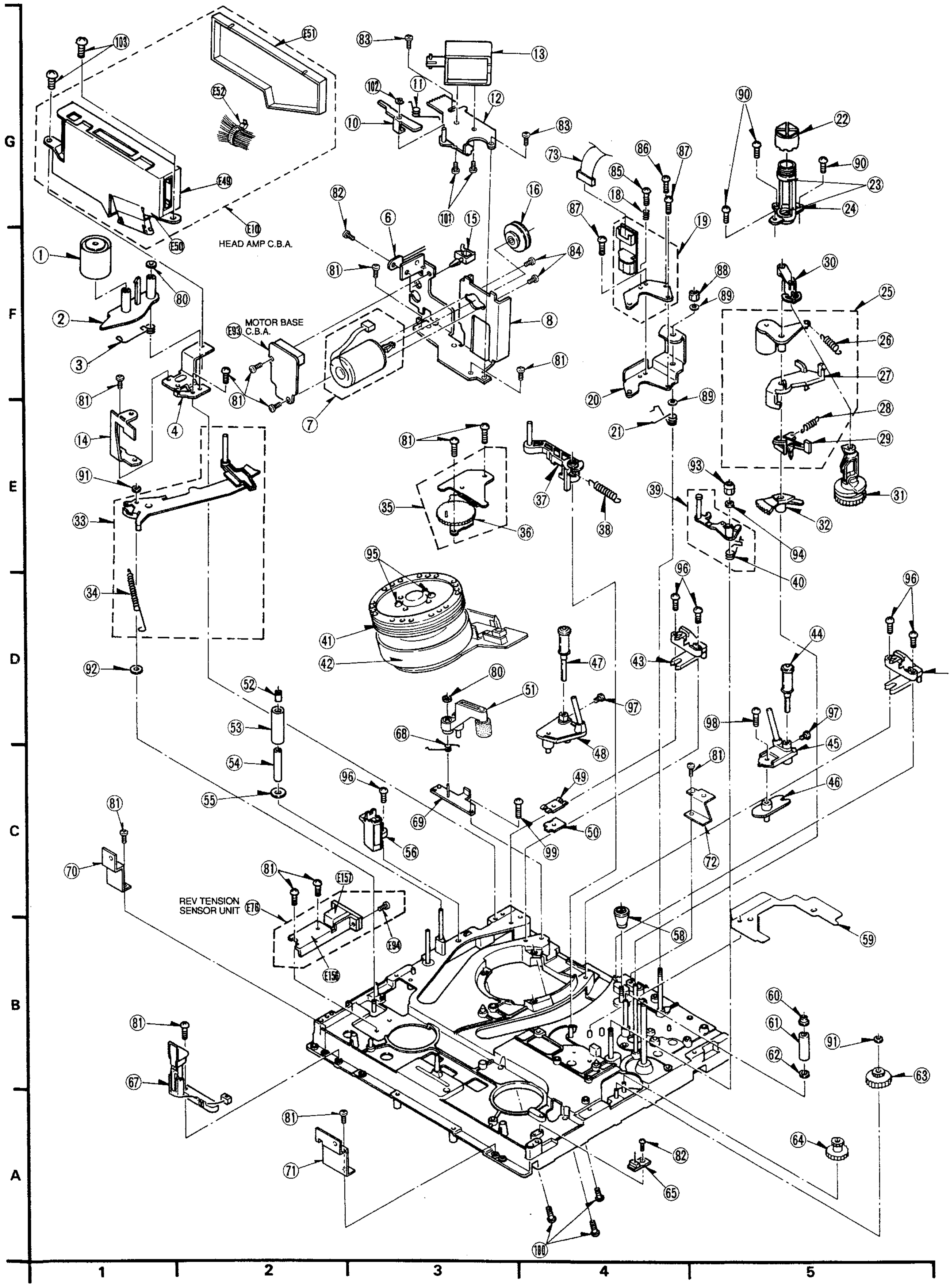
SERVICING FIXTURE & TOOLS LIST

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VFM8180HADH	PAL VHS ALIGNMENT TAPE	1	
		VFM8080HQFP	NTSC VHS ALIGNMENT TAPE	1	
		VFK0329	POST ADJ. SCREWDRIVER	1	
		VFK0132	BACK TENSION METER	1	(T2-H7-UM)
			(TENTELOMETER, MADE IN		
			U.S.A.)		
		VFK0191	POST ADJ. PLATE	1	
		VFK0133	DIAL TORQUE GAUGE	1	
		VFK0180	PLASTIC CLAMPER ONLY	1	
		VFK0134	ADAPTOR FOR VFK0133	1	
		VFK0190	REEL TABLE HEIGHT GAUGE	1	
		VFK0236	TENSION POST ADJ. FIXTURE	1	
		VFK0578	TENSION SENSOR ADJ. FIXTURE	1	
		VFK0328	H-POSITION ADJ. SCREWDRIVER	1	
		VFK0330	FINE ADJ. SCREWDRIVER	1	
			(3mm PHI)		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VFK0335	RETAINING RING REMOVER	1	
			(3mm/4mm)		
		VFK0326	HEX. WRENCH SET	1	
		VFK0343	CHECK LIGHT	1	
		MOR265	MOLYTONE GREASE (BLACK)	1	
		VFK0680	S.C.R. GREASE (WHITE)	1	
		VFK27	HEAD CLEANING STICK	1	
		VFK0344	POST HEIGHT ADJ. FIXTURE	1	
		VFK0269	L TYPE SCREWDRIVER	1	
		VFK66	FAN TYPE TENSION GAUGE	1	
		VFK0684	EXTENDER	1	FOR MOTHER BOARD
					CHECKING
		VFK0685	EXTENDER	1	FOR FRONT BOARD
					CHECKING

EXPLODED VIEWS

❶ *Chassis Parts Section*

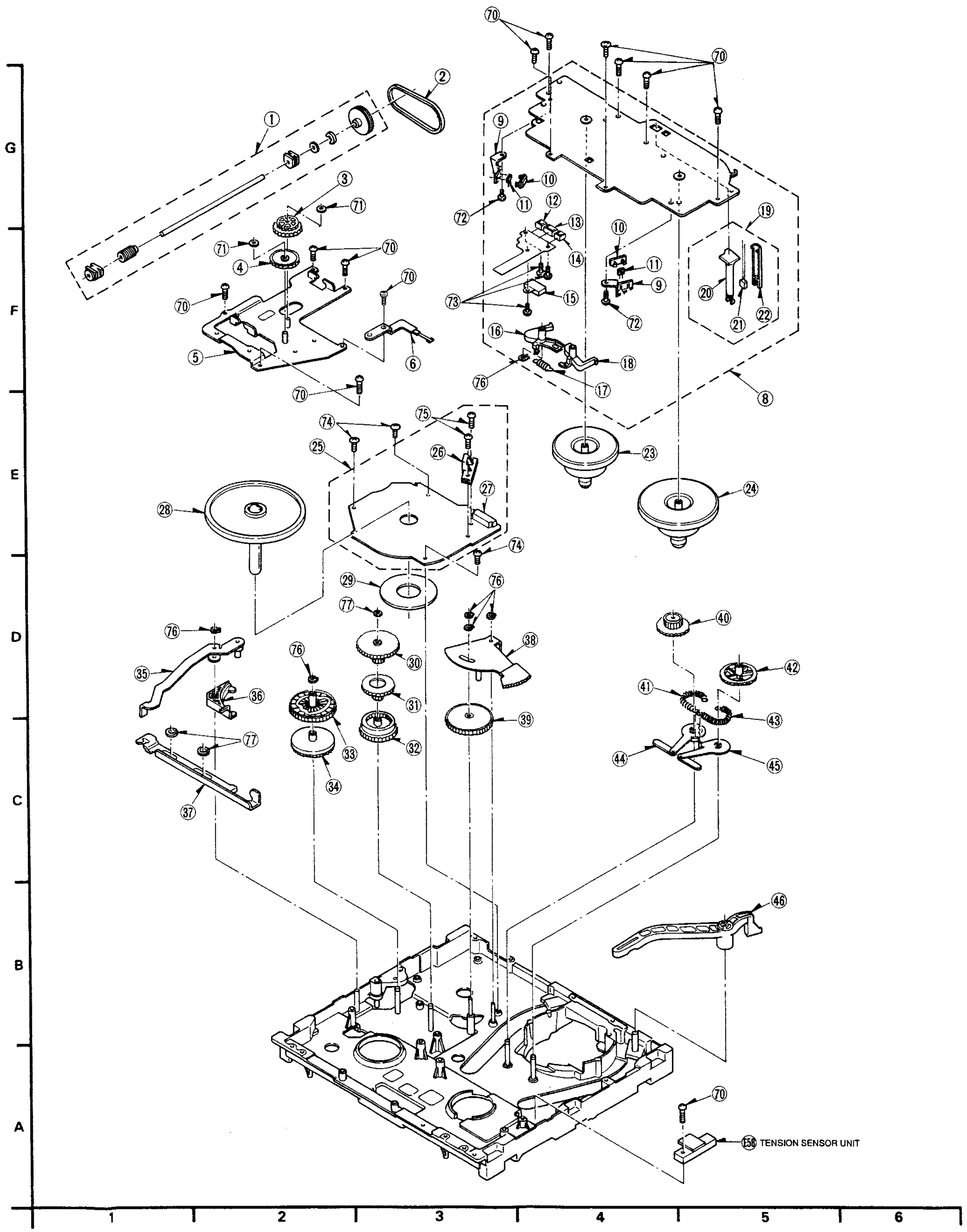


MECHANICAL REPLACEMENT PARTS LIST

1. Chassis Parts Section

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1-1		VXP1075	IMPEDANCE ROLLER UNIT	1	
1-2		VML2293	IMPEDANCE ROLLER ARM	1	
1-3		VMB1976	IMPEDANCE SPRING	1	
1-4		VMA7982	HEAD AMP ANGLE (L)	1	
1-6		VEK3185	HUMIDITY RESISTOR UNIT	1	<R>
1-7		VEM0360	LOADING MOTOR UNIT	1	<M><R>
1-8		VMA8290	MOTOR BASE	1	
1-10		VML2299	CAM LEVER	1	
1-11		VMB1979	CAM LEVER SPRING	1	
1-12		VXA3658	SOLENOID BASE (1) UNIT	1	
1-13		VSJ0092	PINCTH SOLENOID	1	
1-14		VMA8095	IMPEDANS ROLLER SUPPORT	1	
			ANGLE		
1-15		VJF0013	MINI CLAMPER	1	
1-16		VDP1319	MOTOR PULLEY	1	
1-18		VMB1251	ADJUST SPRING	1	
1-19		VED0107	A/C HEAD (1) UNIT	1	<M><R>
1-20		VXA3649	A/C HEAD BASE UNIT	1	
1-21		VMB1567	A/C HEIGHT SPRING	1	
1-22		VXQ0006	THRUST SCREW UNIT	1	
1-23		VMX1033	OIL SEAL	2	
1-24		VXD0133	HOUSING UNIT	1	
1-25		VXL1892	PRESSURE ROLLER UNIT	1	<M><R>
1-26		VMB1977	PINCH PRESSURE SPRING	1	
1-27		VXL1893	PINCH PRESSURE ARM	1	
1-28		VMB1569	PINCH ARM SPRING	1	
1-29		VML1874	PINCH LIFT ARM	1	
1-30		VMX1353	PINCH CAM ARM	1	
1-31		VDG0577	PINCH CAM	1	
1-32		VDG0651	PULL OUT SECTOR GEAR	1	
1-33		VXL2089	TENSION ARM UNIT	1	
1-34		VMB1975	TENSION SPRING	1	
1-35		VEK4171	MECHANISM CONNECTION UNIT	1	
1-36		VSS0257	MODE SWITCH	1	<M><R>
1-37		VXL1857	SUB LOADING ARM (1) UNIT	1	
1-38		VMB1566	SUB POST SPRING	1	
1-39		VXL2074	P5 UNIT	1	
1-40		VMB1554	P5 SPRING	1	
1-41		VEH0437	UPPER CYLINDER UNIT	1	<M><R>
1-42		VEG0909	LOWER CYLINDER UNIT	1	<M><R>
1-43		VMD0910	POST STOPPER	2	
1-44		VXP1094	ROLLER POST (T) UNIT	1	
1-45		VXA3213	INCLINED BASE (T) (1) UNIT	1	
1-46		VXA2687	INCLINED ADJUSTMENT PLATE U	1	
1-47		VXP1093	ROLLER POST (S) UNIT	1	
1-48		VXA3249	INCLINED BASE (S) (2) UNIT	1	
1-49		VMA7029	HOLDER PLATE (S)	1	
1-50		VMA7660	PLATE	1	
1-51		VXL1979	HEAD CLEANING UNIT	1	<M><R>
1-52		VMX1088	UPPER LIMITER	1	
1-53		VDP1276	SUPPLY ROLLER	1	
1-54		VMX1581	P1 COLIAR	1	
1-55		VMX1533	LOWER LIMITER	1	
1-56		VBS0038	FE HEAD	1	
1-58		VHN0110	ADJUST NUT	1	
1-59		VXA3871	SHIELD PLATE UNIT	1	
1-60		VMX1544	P4 UPPER LIMITER	1	
1-61		VMX1568	P4 SLEEVE	1	
1-62		VMX1534	P4 LOWER LIMITER	1	
1-63		VDG0664	CONNECTION GEAR	1	
1-64		VDG0483	PINCH SPEED DOWN GEAR	1	
1-65		VSP0293	S-VHS CASSETTE DETECT SW	1	<R>
1-67		VES0639	SAFETY SWITCH	1	
1-68		VMB1996	CLEANING SPRING	1	
1-69		VXA3980	HEAD CLEANING PLATE UNIT	1	
1-70		VMA6895	MOUNT PLATE (L)	1	
1-71		VMA6896	MOUNT PLATE (R)	1	
1-72		VMA8593	HEAD AMP ANGLE (R)	1	
1-73		VEE7395	FLEXIBLE CABLE	1	
1-80		VMX1079	CUT WASHER	2	
1-81		XTV26+6F	SCREW	12	
1-82		XTV2+4F	SCREW	2	
1-83		XYN26+F5FZ	SCREW	2	
1-84		XSN3+3.5	SCREW	2	
1-85		VHD0322	SCREW	1	
1-86		VHD0089B	SCREW	1	
1-87		XSN3D6FZ	SCREW	2	
1-88		VHN0063	M4 NYLON NUT	1	
1-89		XWE4	M4 NYLON WASHER	2	
1-90		VHD0374	SCREW	3	
1-91		VMX0653	CUT WASHER	3	
1-92		XWGV3D6G	POLLY SLIDER WASHER	1	
1-93		VHN0045	M3 NYLON NUT	1	
1-94		XWE3VW	M3 WASHER	1	
1-95		VHD0425	SCREW	2	
1-96		XTV26+10F	SCREW	5	
1-97		VHD0133	SCREW	2	
1-98		XYN26+F6FZ	SCREW	1	
1-99		XTN3+6FFZ	SCREW	1	
1-100		VHD0342	SCREW	3	
1-101		XYN26+C4	SCREW	2	
1-102		XUC25FP	E RING	1	
1-103		XTW3+8LR	SCREW	2	

❷ *Moving Mechanism Section*



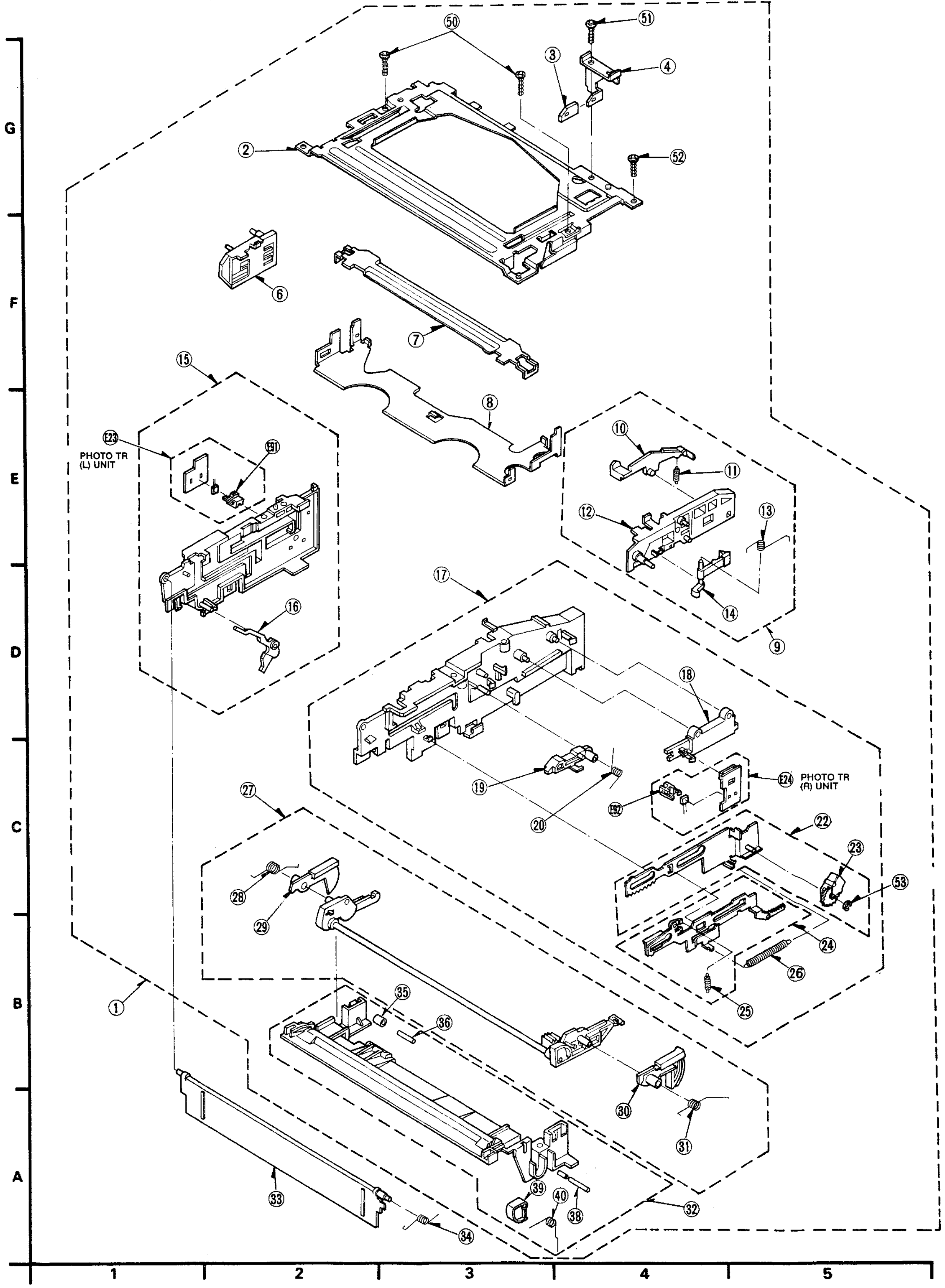
2. Moving Mechanism Section

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
2-1		VXP1082	WORM SHAFT UNIT	1	
2-2		VDV0228	LOADING BELT	1	<M><R>
2-3		VDG0581	WORM WHEEL	1	
2-4		VDG0582	INTERMEDIATE GEAR	1	
2-5		VXA3646	GEAR BASE (1) UNIT	1	
2-6		VXS0098	EARTH SPRING	1	
2-8		VXA4109	STATOR BASE UNIT	1	
2-9		VMD0611	FG SUPPORT (1)	2	
2-10		VMD0621	FG SUPPORT (2)	2	
2-11		HW-300B	HOLE IC	2	<R>
2-12		VJP1229R	CONNECTOR (2P)	1	
2-13		VJP1235T	CONNECTOR (8P)	1	
2-14		VJP1229T	CONNECTOR (2P)	1	
2-15		VSJ0066	SOLENOID	1	
2-16		VXZ0270	MAIN BRAKE (S) UNIT	1	<M><R>
2-17		VMB1978	BRAKE SPRING	1	
2-18		VXZ0271	MAIN BLAKE (T) UNIT	1	<M><R>
2-19		VEK4164	LED UNIT	1	
2-20		VMX1565	LED HOLDER (A)	1	
2-21		GL450	LED	1	<R>
2-22		VMX0683	LED HOLDER (L)	1	
2-23		VXR0187	TAKEUP REEL TABLE UNIT	1	<R>
2-24		VXR0186	SUPPLY REEL TABLE UNIT	1	<R>
2-25		VEK4105	STATOR UNIT	1	
2-26		VBK0048	MR HEAD	1	<R>
2-27		VJP1902	CONNECTOR	1	
2-28		VXP1328	ROTOR UNIT	1	
2-29		VMA6847	SUB PLATE	1	
2-30		VDG0580	CENTER GEAR	1	
2-31		VXP0878	RETANER GEAR UNIT	1	
2-32		VDG0342	RING GEAR	1	
2-33		VDG0578	MAIN CAM GEAR	1	
2-34		VDG0343	SUB CAM GEAR	1	
2-35		VXL1895	CAM FOLLOWER ARM UNIT	1	
2-36		VML1861	DETENT ARM	1	
2-37		VMM0218	MAIN ROD	1	
2-38		VXA3144	SECTOR GEAR UNIT	1	
2-39		VDG0579	LOADING CAM GEAR	1	
2-40		VDG0420	LOADING GEAR (T)	1	
2-41		VMB1555	LOADING SPRING (T)	1	
2-42		VDG0593	LOADING GEAR (S)	1	
2-43		VMB1746	LOADING SPRING (S)	1	
2-44		VXL1489	LOADING ARM (T) (1) UNIT	1	
2-45		VXL1487	LOADING ARM (S) (1) UNIT	1	
2-46		VML2304	CLEANING ROD	1	
2-70		XTV26+6F	SCREW	12	
2-71		VMX0653	CUT WASHER	2	
2-72		XYN2+F5	SCREW	2	
2-73		XSN26+4	SCREW	3	
2-74		XYEV0004	SCREW	3	
2-75		XYNV0015	SCREW	2	
2-76		XUEV3VW	WASHER	6	
2-77		VMX1079	CUT WASHER	3	

3. Cassette Compartment Section

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
3-1		VXA4504	CASSETTE COMPERTMENT UNIT	1	<R>
3-2		VMA8166	TOP PLATE	1	
3-3		VMD1384	CASSETTE HOLDER CAP	1	
3-4		VMA7992	CASSETTE HOLDER ANGLE	1	
3-6		VMD1387	HOLDER GUIDE	1	
3-7		VXA3691	HOLDER ANGLE UNIT	1	
3-8		VMA7989	CASSETTE HOLDER	1	
3-9		VMA3692	HOLDER GUIDE (R) UNIT	1	
3-10		VML1882	DOOR OPEN LEVER	1	
3-11		VMB1584	DOOR OPEN LEVER SPRING	1	
3-12		VMD1386	HOLDER GUIDE (R)	1	
3-13		VMB2063	RELEASE SPRING	1	
3-14		VML2306	RELEASE LEVER	1	
3-15		VXA3694	SIDE PLATE (L) UNIT	1	
3-16		VML2305	OPENER LEVER	1	
3-17		VXA3693	SIDE PLATE (R) UNIT	1	
3-18		VSS0258	SLIDE SWITCH	1	<R>
3-19		VML2288	DOWN SUPPORT LEVER	1	
3-20		VMB1961	DOWN SUPPORT SPRING	1	
3-22		VXA3696	MAIN RACK UNIT	1	
3-23		VDG0737	DAMPER	1	
3-24		VXA3697	SUB RACK UNIT	1	
3-25		VMB1780	RACK C SPRING	1	
3-26		VMB1997	CLUTCH SPRING	1	
3-27		VXP1089	MAIN SHAFT UNIT	1	
3-28		VMB1999	SUB WIPER SPRING (L)	1	
3-29		VML1878	SUB WIPER ARM (L)	1	
3-30		VML1879	SUB WIPER ARM (R)	1	
3-31		VMB1998	SUB WIPER SPRING (R)	1	
3-32		VXA4500	CASSETTE GUIDE UNIT	1	
3-33		VKF1243	BLINDER PANEL	1	<R>
3-34		VMB1258	BLINDER SPRING	1	
3-35		VDP1398	CASSETTE ROLLER	1	
3-36		VMS3061	ROLLER SHAFT	1	
3-38		VMS4644	SHAFT	1	
3-39		VMD1773	CASSETTE SUPPORT	1	
3-40		VMB2329	SUPPORT SPRING	1	
3-50		XTV26+8G	SCREW	2	
3-51		XTV26+6F	SCREW	1	
3-52		XTV3+8G	SCREW	1	
3-53		XUC25FP	E RING	1	

❸ Cassette Compartment Section



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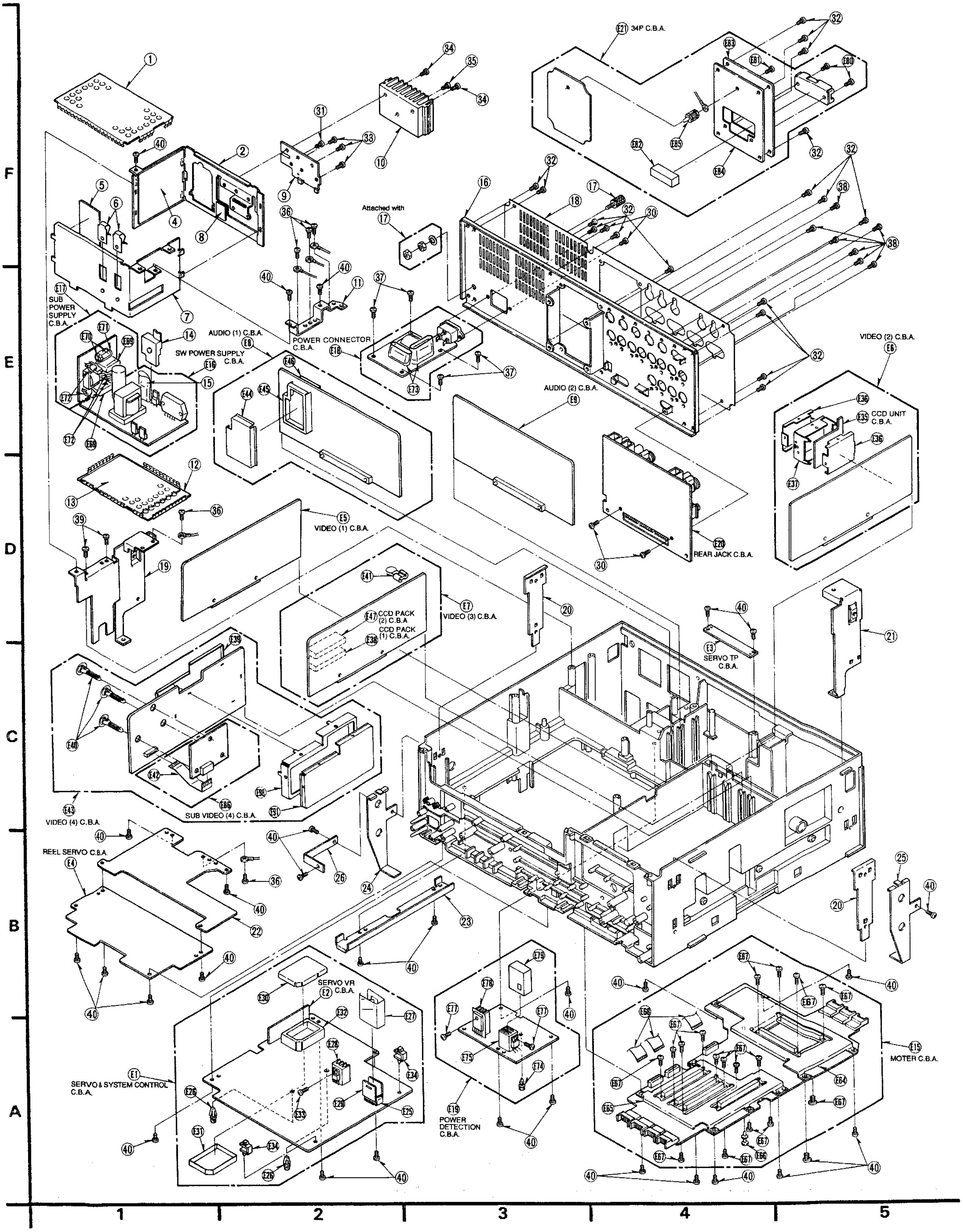
❹ *Chassis & Frame Section*



E21 34P C.B.A.
Attached with 17
SUB POWER SUPPLY C.B.A.
AUDIO (1) C.B.A.
SW POWER SUPPLY C.B.A.
POWER CONNECTOR C.B.A.
AUDIO (2) C.B.A.
VIDEO (2) C.B.A.
CCD UNIT C.B.A.
VIDEO (1) C.B.A.
REAR JACK C.B.A.
CCD PACK (2) C.B.A.
CCD PACK (1) C.B.A.
VIDEO (3) C.B.A.
SERVO TP C.B.A.
VIDEO (4) C.B.A.
SUB VIDEO (4) C.B.A.
REEL SERVO C.B.A.
SERVO VR C.B.A.
SERVO & SYSTEM CONTROL C.B.A.
POWER DETECTION C.B.A.
MOTER C.B.A.
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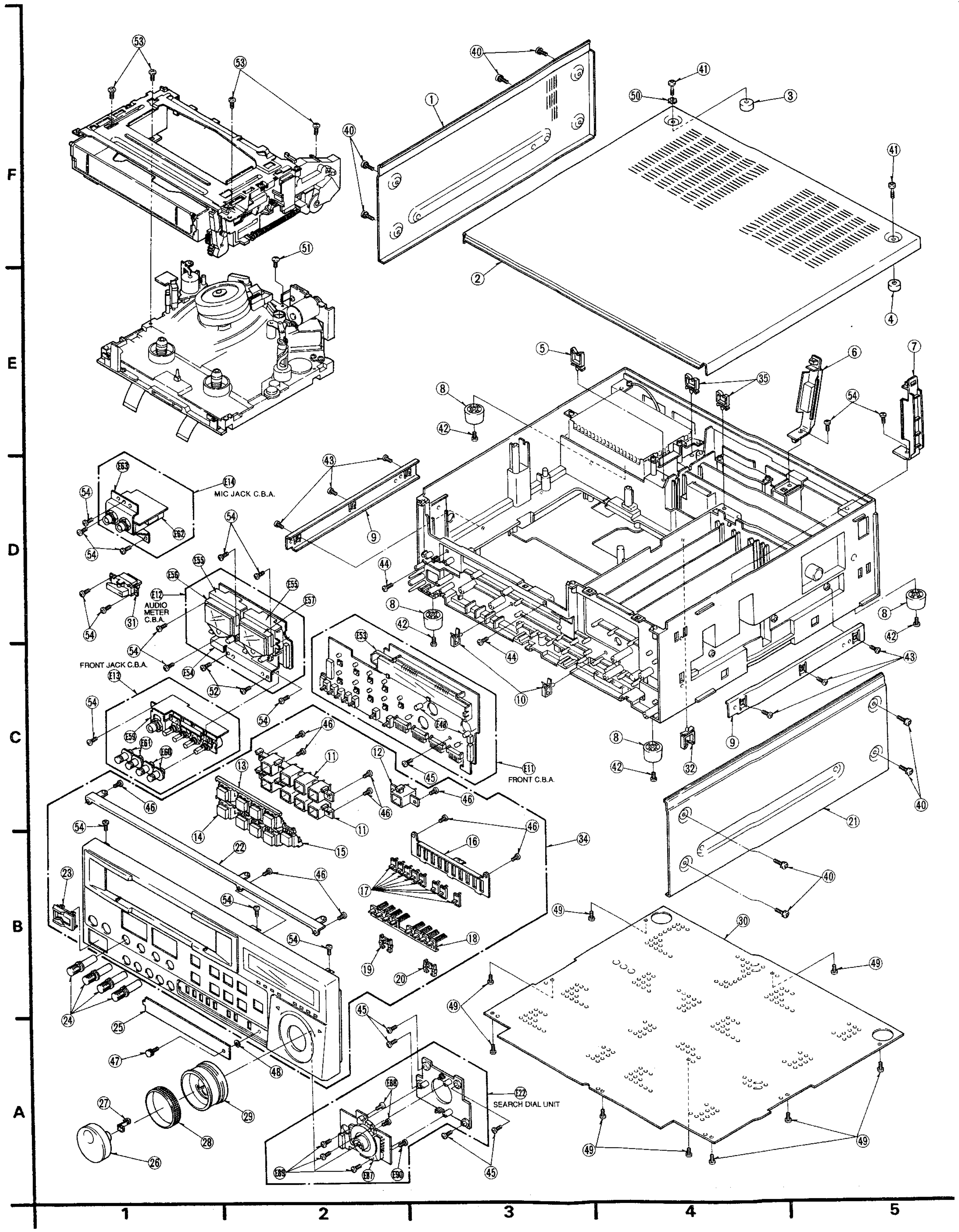
4. Chassis & Frame Section

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
4-1		VSC2754	POWER UNIT SHIELD CASE (UPPER)	1	
4-2		VSC2756	POWER SHIELD CASE (REAR)	1	
4-4		VMZ1358	INSULATION SHEET	1	
4-5		VMZ1394	INSULATION SHEET	1	
4-6		VMC0357	TR SPRING	2	
4-7		VSC2757	POWER SHIELD CASE (FRONT)	1	
4-8		VMZ1393	INSULATION SHEET	1	
4-9		VSC2827	POWER SHIELD PLATE	1	
4-10		VSC2778	HEAT SINK	1	
4-11		VMP2669	EARTH ANGLE	1	
4-12		VSC2755	POWER SHIELD CASE (LOWER)	1	
4-13		VMZ1357	INSULATION SHEET	1	
4-14		VGQ1615	TR HOLDER	1	
4-15		VWZ0074	IC COVER	1	
4-16		VJH0632	REAR JACK ANGLE	1	
4-17		VJH0082	GND TERMINAL	1	
4-18		VGH2863	REAR JACK PLATE	1	
4-19		VMP3221	TOP ANGLE (LEFT)	1	
4-20		VXA4649	SIDE ANGLE UNIT	2	
4-21		VMP3222	TOP ANGLE (RIGHT)	1	
4-22		VMP3216	MECHNISM SHIELD PLATE	1	
4-23		VMP3232	POWER CORD SHIELD ANGLE	1	
4-24		VMP3648	EARTH ANGLE (L)	1	
4-25		VMP3649	EARTH ANGLE (R)	1	
4-26		VMP3650	EARTH ANGLE (MIC)	1	
4-30		XTB3+10FZ	SCREW	2	
4-31		XTS3+8J	SCREW	1	
4-32		XTV3+8FFZ	SCREW	17	
4-33		XTS3+16F	SCREW	3	
4-34		XTV3+12F	SCREW	2	
4-35		XTV3+12J	SCREW	1	
4-36		XYE3+EF8FR	SCREW	5	
4-37		XTW3+10JFR	SCREW	4	
4-38		XTV3+10JFZ	SCREW	7	
4-39		XTV3+10J	SCREW	2	
4-40		XTV3+10JFR	SCREW	30	

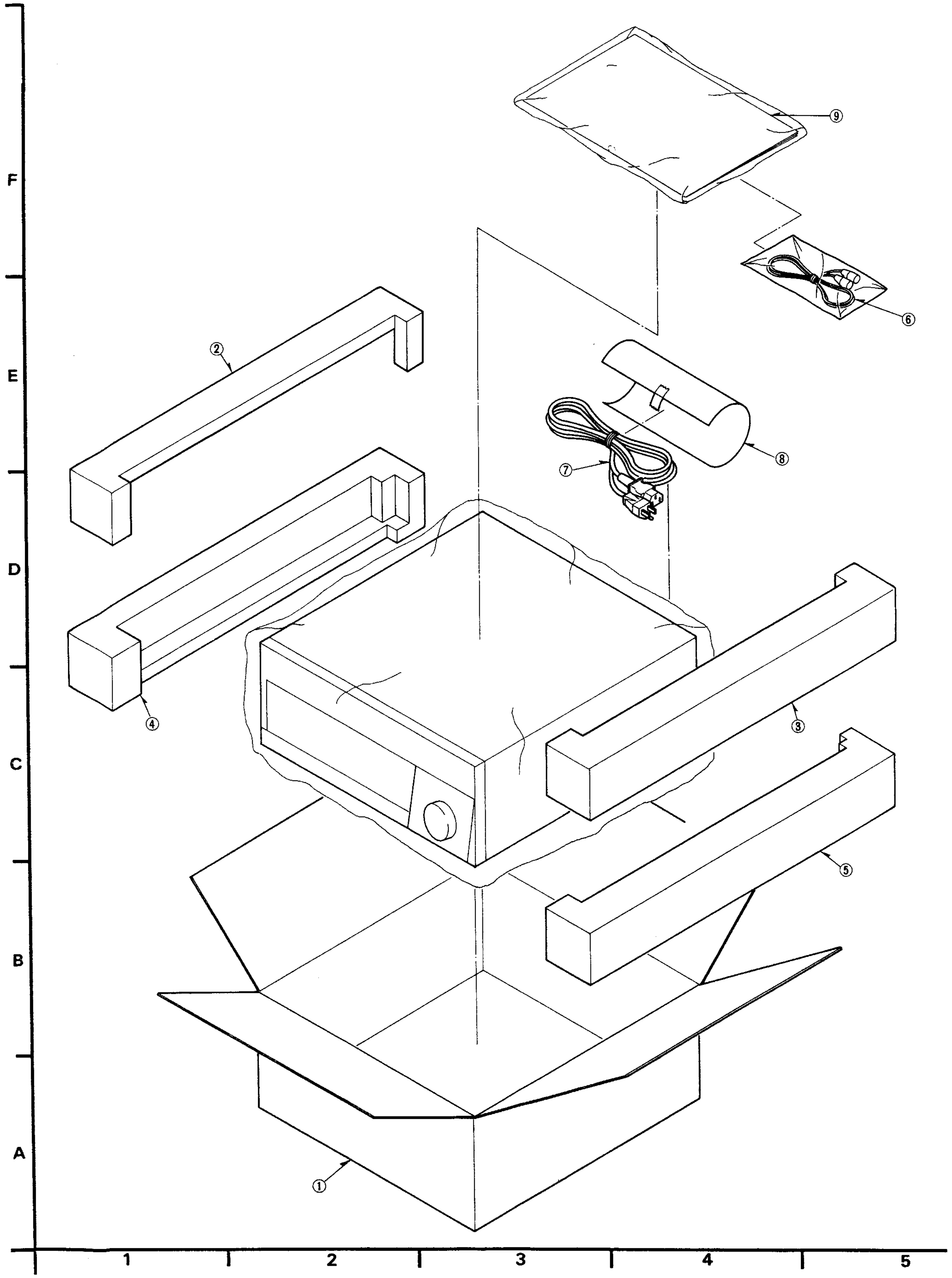
5. Casing Parts Section

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
5-1		VGM0799	SIDE PANEL (LEFT)	1	
5-2		VGM0798	TOP PANEL	1	
5-3		VMX1789	TOP PANEL SPACER	1	
5-4		VMX0871	TOP PANEL SPACER	1	
5-5		VJF0004	MINI CLAMPER	1	
5-6		VKC0393	C.B. HOLD PIECE (A)	1	
5-7		VKC0394	C.B. HOLD PIECE (B)	1	
5-8		VKA0117	RUBBER FOOT	4	
5-9		VXA4551	SUPPORT ANGLE UNIT	2	
5-10		VJF0013	MINI CLAMPER	2	
5-11		VGF0418	LED HOLDER (A)	2	
5-12		VGF0419	LED HOLDER (B)	1	
5-13		VGU5600	OPERATION BUTTON (A)	1	
5-14		VGU5633	OPERATION BUTTON (A)	1	
5-15		VGU5601	OPERATION BUTTON (B)	1	
5-16		VMP3226	KNOB HOLD ANGLE	1	
5-17		VGU5603	SLIDE KNOB	8	
5-18		VGU5602	COUNTER BUTTON	1	
5-19		VGL0508	REV. PANELIGHT	1	
5-20		VGL0506	FWD PANELIGHT	1	
5-21		VGM0800	SIDE PANEL (RIGHT)	1	
5-22		VMP3225	FRONT SUPPORT ANGLE	1	
5-23		VKW1501	POWER SWITCH COVER	1	
5-24		VGU5604	VR KNOB	4	
5-25		VKW1499	OPERATION AREA COVER	1	
5-26		VGU4604	JOG DIAL KNOB	1	
5-27		VMC0444	KNOB SPRING	1	
5-28		VMG0476	SEARCH DIAL RUBBER	1	
5-29		VGU4605	SEARCH DIAL KNOB	1	
5-30		VKM2737	BOTTOM PLATE	1	
5-31		VES0654	POWER SWITCH UNIT	1	<R><!>
5-32		VJF0022	CLAMPER	1	
5-34		VYP3840	FRONT PANEL UNIT	1	
5-35		VJF0004	MINI CLAMPER	2	
5-40		VHD0426	SCREW	8	
5-41		VHD0222	SCREW	2	
5-42		XTV3+16G	SCREW	4	
5-43		XTV3+10J	SCREW	6	
5-44		XTV4+8F	SCREW	2	
5-45		XTV4+10JFR	SCREW	5	
5-46		XTV3+8J	SCREW	10	
5-47		VHD0679	SCREW	1	
5-48		VMX1558	NYLON WASHER	1	
5-49		VHD0059	SCREW	9	
5-50		XWC4BFY	WASHER (M4)	1	
5-51		XTV4+12J	SCREW	1	
5-52		XTV3+8F	SCREW	2	
5-53		XTV26+8FR	SCREW	4	
5-54		XTV3+10JFR	SCREW	15	

❺ *Casing Parts Section*



❻ *Packing Parts Section*



6. Packing Parts Section

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
6-1		VPG6202	PACKING CASE	1	FOR AG-7355-B
6-1		VPG6201	PACKING CASE	1	FOR AG-7355-E
6-2		VPN3177	CUSHION (LEFT TOP)	1	
6-3		VPN3178	CUSHION (RIGHT TOP)	1	
6-4		VPN3179	CUSHION (LEFT BOTTOM)	1	
6-5		VPN3180	CUSHION (RIGHT BOTTOM)	1	
6-6		VJA0579	4P CABLE	1	
6-7		VJA0701	POWER CORD	1	<R><!> FOR AG-7355-E
6-7		VJA0702	POWER CORD	1	<R><!> FOR AG-7355-B
6-8		VPF0136	POWER CORD SHEET	1	
6-9		VQT4391	OPERATING INSTRUCTIONS	1	<R><!>
			(ENGLISH)		FOR AG-7355-E/B
6-9		VQT4392	OPERATING INSTRUCTIONS	1	<R><!> FOR AG-7355-E
			(FRENCH / GERMAN)		

ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
E1		VEP06729E	P.C.BOARD W/COMPONENT SERVO & SYSTEM CONTROL	1	(NLA)<R> INCLUDING THE SERVO VR (VEP00R51B)
E2		VEP00R51B	P.C.BOARD W/COMPONENT SERVO VR	1	(NLA)<R> PARTS LIST IS INCLUDED IN SERVO & SYSTEM CONTROL (VEP06729E)
E3		VEP00R80A	P.C.BOARD W/COMPONENT SERVO TP	1	(NLA)<R>
E4		VEP02377A	P.C.BOARD W/COMPONENT REEL SERVO	1	(NLA)<R>
E5		VEP03877A	P.C.BOARD W/COMPONENT VIDEO (1)	1	(NLA)<R>
E6		VEP03878A	P.C.BOARD W/COMPONENT VIDEO (2)	1	(NLA)<R> INCLUDING THE CCD UNIT (VEP03880A)
E35		VEP03880A	P.C.BOARD W/COMPONENT CCD UNIT	1	(NLA)<R> PARTS LIST IS INCLUDED IN VIDEO (2) (VEP03878A
E7		VEP03879A	P.C.BOARD W/COMPONENT VIDEO (3)	1	(NLA)<R> INCLUDING THE CCD UNIT (1) (VEP00R78A) INCLUDING THE CCD UNIT (2) (VEP00R78B)
E38		VEP00R78A	P.C.BOARD W/COMPONENT CCD PACK (1)		(NLA)<R> PARTS LIST IS INCLUDED IN VIDEO (3) (VEP03879A)
E47		VEP00R78B	P.C.BOARD W/COMPONENT CCD PACK (2)		(NLA)<R> PARTS LIST IS INCLUDED IN VIDEO (3) (VEP03879A)
E43		VEP03891B	P.C.BOARD W/COMPONENT VIDEO (4)	1	(NLA)<R> INCLUDING THE SUB VIDEO (4) (VEP03899B)
E86		VEP03899B	P.C.BOARD W/COMPONENT SUB VIDEO (4)	1	(NLA)<R> PARTS LIST IS INCLUDED IN VIDEO (4) (VEP03891B)
E8		VEP04326C	P.C.BOARD W/COMPONENT AUDIO (1)	1	(NLA)<R>
E9		VEP04327C	P.C.BOARD W/COMPONENT AUDIO (2)	1	(NLA)<R>
E10		VEP05162C	P.C.BOARD W/COMPONENT HEAD AMP	1	(NLA)<R>
E11		VEP06749F	P.C.BOARD W/COMPONENT FRONT	1	(NLA)<R>
E12		VEP04328A	P.C.BOARD W/COMPONENT AUDIO METER	1	(NLA)<R>
E13		VEP04342A	P.C.BOARD W/COMPONENT FRONT JACK	1	(NLA)<R>
E14		VEP04343A	P.C.BOARD W/COMPONENT MIC JACK	1	(NLA)<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
E15		VEP00S01A	P.C.BOARD W/COMPONENT MOTHER	1	(NLA)<R>
E16		VEP01502A	P.C.BOARD W/COMPONENT SW POWER SUPPLY	1	(NLA)<R>
E17		VEP01503A	P.C.BOARD W/COMPONENT POWER SUPPLY SUB	1	(NLA)<R>
E18		VEP01478B	P.C.BOARD W/COMPONENT POWER CONNECTION	1	(NLA)<R>
E19		VEP01471B	P.C.BOARD W/COMPONENT POWER DETECTION	1	(NLA)<R>
E20		VEP04344C	P.C.BOARD W/COMPONENT REAR JACK	1	(NLA)<R>
E21		VEP06538C	P.C.BOARD W/COMPONENT 34P	1	(NLA)<R>
E22		VEK5556	P.C.BOARD W/COMPONENT SEARCH DIAL UNIT	1	(NLA)<R>
E23		VEK3578	P.C.BOARD W/COMPONENT PHOTO TR (L) UNIT	1	(NLA)<R>
E24		VEK4058	P.C.BOARD W/COMPONENT PHOTO TR (R) UNIT	1	(NLA)<R>
E58		VEK2657	P.C.BOARD W/COMPONENT TENSION SENSOR UNIT	1	(NLA)<R>
E76		VEK4265	P.C.BOARD W/COMPONENT REV. TENSION SENSOR UNIT	1	(NLA)<R>
E93		VEK4163	P.C.BOARD W/COMPONENT MOTOR BASE	1	(NLA)<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP06729E	P.C.BOARD W/COMPONENT		INCLUDING THE
			SERVO & SYSTEM CONTROL		SERVO VR (VEP00R51A)
BAT6001		VSB0004	BATTERY	1	<R>
			CAPACITORS		
C1901,02		ECEA1EU331	E.CAPACITOR 25V 330U	2	
C1903		ECEA1VKA470	E.CAPACITOR 35V 47U	1	
C1904		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1905		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C1906		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C1907		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	1	
C1908-10		ECEA1HKA010	E.CAPACITOR 50V 1U	3	
C1911		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1912,13		ECEA1EU221	E.CAPACITOR 25V 220U	2	
C1914		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1915		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2001		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2002		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2003		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C2004		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2005,06		ECEA1CKA470	E.CAPACITOR 16V 47U	2	
C2007		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2008		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C2009		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C2010		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2011		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2015,16		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C2017		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2018		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2019		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2020		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2022,23		ECQV1H564JZ	P.CAPACITOR 50V 0.56U	2	
C2027		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2028		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C2029		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2030		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2031		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C2032		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C2033		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2034		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2035		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2036		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C2037,38		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C2039		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2040,41		ECEA1CKA330	E.CAPACITOR 16V 33U	2	
C2042		ECEA10Z47	E.CAPACITOR 10V 47U	1	
C2043,44		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	2	
C2045,46		ECQB1H472JF	P.CAPACITOR 50V 4700P	2	
C2047		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C2048		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C2049		ECUM1H123KBN	C.CAPACITOR CH 50V 0.012U	1	
C2050		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2051		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2052		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2053		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2054		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2055		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2056		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2057,58		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	2	
C2059		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2060		ECEA1EU101	E.CAPACITOR 25V 100U	1	
C2061		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2062-64		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	3	
C2065		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C2065		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C2066-68		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	3	
C2069		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2070		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C2071		ECEA1EU101	E.CAPACITOR 25V 100U	1	
C2072		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C2073		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2074-76		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2077-79		ECQB1H332JF	P.CAPACITOR 50V 3300P	3	
C2080-82		ECQB1H333JF	P.CAPACITOR 50V 0.033U	3	
C2083		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2084		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2085,86		ECEA1EU101	E.CAPACITOR 25V 100U	2	
C2087		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2088		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2089		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2090		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2091		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2092		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C2093		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C2094,95		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2096,97		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	2	
C2098,99		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2100-06		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	7	
C2107		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2108,09		ECQB1H104JF	P.CAPACITOR 50V 0.1U	2	
C2110		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C2111		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2113		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2114		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2115		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C2116,17		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	2	
C6001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6002		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C6003		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C6004-06		ECQB1H104JF	P.CAPACITOR 50V 0.1U	3	
C6007		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C6008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6009		ECEA1CU102	E.CAPACITOR 16V 1000U	1	
C6010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6011		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C6012		ECEA1CU102	E.CAPACITOR 16V 1000U	1	
C6014		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C6015		ECEA1EKA470	E.CAPACITOR 25V 47U	1	
C6016,17		ECQB1H104JF	P.CAPACITOR 50V 0.1U	2	
C6018		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C6019		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C6020		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C6021		ECEA1CN101S	E.CAPACITOR 16V 100U	1	
C6022		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C6023		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C6024		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C6025,26		ECEA1ASS332	E.CAPACITOR 10V 3300U	2	
C6027		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C6028		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C6029		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C6030		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C6031		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6032		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6033,34		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C6035,36		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6037,38		ECEA1CKA470	E.CAPACITOR 16V 47U	2	
C6039		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6040		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6041		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6043		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C6044-46		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	3	
C6048		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6049,50		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6051		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6052		ECUM1H272KBN	C.CAPACITOR CH 50V 2700P	1	
C6053		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6054		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C6056		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6057		ECEA1ASS332	E.CAPACITOR 10V 3300U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6059,60		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
D1901		MA4100M	DIODE	1	<R>
D1902		MA4110-M	DIODE	1	<R>
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D1905		MA151K	DIODE	1	<R>
D2001-04		MA151K	DIODE	4	<R>
D2005		MA723VT	DIODE	1	<R>
D2006		MA151K	DIODE	1	<R>
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D2010		MA4180M	DIODE	1	<R>
D2011,12		MA151K	DIODE	2	<R>
D2013		MA4130L	DIODE	1	<R>
D2014		MA151WA	DIODE	1	<R>
D2015,16		MA151K	DIODE	2	<R>
D2018-20		11EQS04	DIODE	3	<R>
D2021		MA3030-L	DIODE	1	<R>
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D6002		MA170	DIODE	1	<R>
D6003,04		MA151K	DIODE	2	<R>
D6005		10E1	DIODE	1	<R>
D6006		MA151WA	DIODE	1	<R>
D6007,08		MA151K	DIODE	2	<R>
D6009		11EQS04	DIODE	1	<R>
D6010-12		MA151K	DIODE	3	<R>
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D6014		MA151K	DIODE	1	<R>
D6017,18		MA151K	DIODE	2	<R>
D6019,20		11EQS04	DIODE	2	<R>
D6021		MA151K	DIODE	1	<R>
D6022		11EQS04	DIODE	1	<R>
D6023		MA151K	DIODE	1	<R>
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IC2003		AN3726K	IC	1	<R>
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IC2006		LM393PS	IC	1	<R>
IC2008		LM358PS	IC	1	<R>
IC2009		BA6435S	IC	1	<R>
IC2010		MN1280R	IC	1	<R>
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IC2012		AN3815K	IC	1	<R>
IC2013		LM393PS	IC	1	<R>
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IC2015		MC14013BF	IC	1	<R>
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J2001,02		ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	2	
J2004-08		ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	5	
J2010		ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
J2012		ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	1	
J6003		ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	1	
J6007		ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	1	
L1901,02		ELC10E014	COIL	2	
L1903		VLQ0460	COIL 100UH	1	
L2001		VLQ0460	COIL 100UH	1	
L2002		VLQEL05K102J	COIL 1000UH	1	
L2003-05		VLQ0460	COIL 100UH	3	
L2006-10		VLQEL05K221J	COIL 220UH	5	
L2011-13		VLQ0460	COIL 100UH	3	
L6001		VLQEL05K471J	COIL 470UH	1	
L6002		VLQEL05K150J	COIL 15UH	1	
L6003-06		VLQEL05K221J	COIL 220UH	4	
L6007		VLQ0460	COIL 100UH	1	
P2001		VJP1230T	CONNECTOR (MALE) 3P	1	
P2002		VJP1233T	CONNECTOR (MALE) 6P	1	
P2003		VJP1237T	CONNECTOR (MALE) 10P	1	
P2004		VJP1932T	CONNECTOR (MALE) 15P	1	
P2201,02		VJR0477	PACK PIN	2	
P6001-03		VJS2123	CONNECTOR (FEMALE) 18P	3	
P6004		VJP1237T	CONNECTOR (MALE) 10P	1	
P6005		VJP1511T	CONNECTOR (MALE) 11P	1	
P6006		VJP1232T	CONNECTOR (MALE) 5P	1	
P6007		VJS2650A004Z	CONNECTOR (FEMALE) 4P	1	
P6008		VJP1235T	CONNECTOR (MALE) 8P	1	
P6009		VJP1511T	CONNECTOR (MALE) 11P	1	
P6010		VJP1230G	CONNECTOR (MALE) 3P	1	
P6011		VJP1237T	CONNECTOR(MALE) 10P	1	
P6012		VJP1239T	CONNECTOR(MALE) 12P	1	
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Q1902,03		2SB772	TRANSISTOR	2	(P,Q,R)<R>
Q2001		2SD1275	TRANSISTOR	1	<R>
Q2002		MSB710-R	TRANSISTOR	1	<R>
Q2003,04		MSD601-R	TRANSISTOR	2	<R>
Q2005		MSC2295-B	TRANSISTOR	1	<R>
Q2006-08		MSD601-R	TRANSISTOR	3	<R>
Q2010,11		MSD601-R	TRANSISTOR	2	<R>
Q6001		2SD638	TRANSISTOR	1	(Q,R,S)<R>
Q6002		MSB710-R	TRANSISTOR	1	<R>
Q6003,04		2SB819	TRANSISTOR	2	(Q,R,S)<R>
Q6005,06		MSD601-R	TRANSISTOR	2	<R>
Q6007		2SD636-R	TRANSISTOR	1	<R>
Q6009		MSB710-R	TRANSISTOR	1	<R>
Q6010-12		MSD601-R	TRANSISTOR	3	<R>
Q6013		2SB819	TRANSISTOR	1	(Q,R,S)<R>
Q6014,15		MSD601-R	TRANSISTOR	2	<R>
Q6016		2SB941	TRANSISTOR	1	<R>
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Q6018		MSD601-R	TRANSISTOR	1	<R>
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QR2001		MRN1402	TRANSISTOR	1	<R>
QR2003		MRN1404	TRANSISTOR	1	<R>
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QR6001		MRN1403	TRANSISTOR	1	<R>
QR6002,03		MRN1404	TRANSISTOR	2	<R>
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QR6006		MRN1402	TRANSISTOR	1	<R>
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QR6010		MRN1404	TRANSISTOR	1	<R>
QR6011		MRN2404	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR6012		MRN1403	TRANSISTOR	1	<R>
QR6013		MRN1404	TRANSISTOR	1	<R>
QR6014		UN2215	TRANSISTOR-RESISTOR	1	<R>
QR6015-18		MRN1404	TRANSISTOR	4	<R>
QR6019,20		MRN2402	TRANSISTOR	2	<R>
QR6021-24		MRN1404	TRANSISTOR	4	<R>
QR6025		MRN2404	TRANSISTOR	1	<R>
QR6026-30		MRN1404	TRANSISTOR	5	<R>
QR6040		DTC144EK	TRANSISTOR-RESISTOR	1	<R>
QR6041		DTA143XK	TRANSISTOR-RESISTOR	1	<R>
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R1901		ERQ12HJ3R9P	F.RESISTOR 1/2W 3.9	1	
R1902		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R1903		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R1904,05		ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	2	
R1906		ERX12SJR82	M.RESISTOR 1/2W 0.82	1	
R1907		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R1908		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R1909		ERX12SJR82	M.RESISTOR 1/2W 0.82	1	
R1910		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R1911		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R2001		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2002		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2003		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2004		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2005		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R2006		ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R2007		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2008		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2013-15		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	3	
R2016		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2017,18		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R2019		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R2020		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2021		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2022		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R2024		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2025,26		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R2027		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R2029		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2030		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2031		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2032		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R2033		ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R2034		ERJ6GEYG241	M.RESISTOR CH 1/10W 240	1	
R2035		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2036		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R2037		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R2038		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2039		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R2040		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R2041		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2042		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2043		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R2044,45		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R2046,47		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R2048		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2049		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2050		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R2051		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2052		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2053		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2054		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2055		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R2056		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R2057		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2058		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R2059		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R2060		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R2061,62		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	2	
R2063		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R2064		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2065		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2066		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2067		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R2068		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R2069		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R2070		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R2071,72		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R2073		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R2088		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R2089		ERJ6GEYG752	M.RESISTOR CH 1/10W 7.5K	1	
R2090		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R2093		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2094,95		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R2096		ERX12SJR56	M.RESISTOR 1/2W 0.56	1	
R2097		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R2098		ERJ6GEYJ680	M.RESISTOR CH 1/10W 68	1	
R2099-01		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2102,03		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	2	
R2104		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R2105		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R2106		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2107		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2108,09		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R2110		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2112		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2113		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R2116		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2119		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2120		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R2121		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2122		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2123		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R2125		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R2127		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6001		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R6004		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R6005		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6006		ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R6007		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6008		ERDS1TJ153	C.RESISTOR 1/2W 15K	1	
R6009		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R6010,11		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R6012		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6013		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6014		ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R6015		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6016		ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R6017		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R6018		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R6019,20		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R6021		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R6022		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6023		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R6024		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6025		ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R6026,27		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	2	
R6028		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R6029		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6030		ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R6031		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R6032		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6033		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R6034		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6035		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R6036		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6037		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6038		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6039		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6040		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R6041		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6042		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R6043,44		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	2	
R6045		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6046		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R6047		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6048,49		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R6050		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6051		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R6052		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R6053		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R6054		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6055-58		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	4	
R6060		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
R6061		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6062		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6063		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R6064		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6065,66		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R6067-73		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	7	
R6074,75		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R6076		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6077		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6078		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6079		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R6080		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R6081		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R6082,83		ERG1SJ300	M.RESISTOR 1W 30	2	
R6084		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6085		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R6086,87		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	2	
R6088		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6089		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6090		ERDS1TJ2R2	C.RESISTOR 1/2W 2.2	1	
R6091,92		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R6093		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6094		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6095-98		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	4	
R6099		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R6100		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R6101		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R6102		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R6103		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6104,05		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R6106		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R6109		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R6110		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6114		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R6115		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6116		ERJ6GEYJ823	M.RESISTOR CH 1/10W 82K	1	
R6117		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6118		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6119-27		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	9	
R6131		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6132		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6133		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R6134		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6135		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6136		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R6137		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6138		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R6139		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R6140		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6141		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6144		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6150		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
SW6001		VSS0240	SWITCH	1	<R>
T6001		EIQ7QF002B	IF TRANSFORMER	1	
VR2001		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2003		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2201		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2202		EVMF6SA00B15	V.RESISTOR 100K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR2203		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2204-06		EVMF6SA00B15	V.RESISTOR 100K	3	
VR2207		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2208		EVMF6SA00B23	V.RESISTOR 2K	1	
X1901		VSX0136	CRYSTAL OSCILLATOR	1	<R>
X2001		VSX0296	CRYSTAL OSCILLATOR	1	<R>
X6001		VSX0230	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E25		VMC0075	HEAT SINK ANGLE	1	
E26		VMX0985	SPACER	2	
E27		VMZ0960	HEAT SINK BARRIER	1	
E28		VSC1068	HEAT SINK	1	
E29		VSC1689	HEAT SINK	1	
E30		VSC2761	SHIELD (TOP)	1	
E31		VSC2763	SHIELD (BOTTOM)	1	
E32		VSC3427	SHIELD (MAIN)	1	
E33		XTV3+8F	SCREW	1	
E34		VKC0271	HINGE CLIP	2	
	■	VEP00R80A	P.C.BOARD W/COMPONENT		
			SERVO TP		
P2203		VJP1233T	CONNECTOR(MALE) 6P	1	
	■	VEP02377A	P.C.BOARD W/COMPONENT		
			REEL SERVO		
			CAPACITORS		
C2501		ECQB1H823JF	P.CAPACITOR 50V 0.082U	1	
C2502		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C2503		ECEA1CKN220	E.CAPACITOR 16V 22U	1	
C2504		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2505		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C2506		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2507		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2508		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2509		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2510		ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C2511		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2512		ECEA1CKN4R7	E.CAPACITOR 16V 4.7U	1	
C2513		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2514		ECEA1HKN4R7	E.CAPACITOR 50V 4.7U	1	
C2515		ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C2516-18		ECEA1CKA220	E.CAPACITOR 16V 22U	3	
C2519		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2520		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2521		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C2522		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2523		ECEA1CKA220	E.CAPACITOR 16V 22U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2524,25		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C2526-28		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C2529		ECEA1EKA470	E.CAPACITOR 25V 47U	1	
C2530		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C2531		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C2532		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C2533		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2534		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2535,36		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C2537,38		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	2	
C2539,40		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C2541-43		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	3	
C2544		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2545		ECEA1EKA470	E.CAPACITOR 25V 47U	1	
C2546		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C2547		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C2548		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2549		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2550		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2551,52		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	2	
C2553,54		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C2555		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2556-58		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	3	
C2559		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2560-64		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C2565,66		ECEA0JKA101	E.CAPACITOR 6.3V 100U	2	
C2578		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
D2501-04		MA151WK	DIODE	4	<R>
D2506-09		MA151K	DIODE	4	<R>
IC2501		AN3621NK	IC	1	<R>
IC2502		MN15542VMN	IC	1	<R>
IC2503,04		AN3834K	IC	2	<R>
IC2505		MN1280R	IC	1	<R>
IC2506		LM358P	IC	1	<R>
IC2507		LM324N	IC	1	<R>
IC2508		MC14053BCP	IC	1	<R>
IC2509		LM393P	IC	1	<R>
IC2510		MC14053BCP	IC	1	<R>
IC2511,12		MC14069UBCP	IC	2	<R>
IC2513		LM393P	IC	1	<R>
L2501,02		VLQ0460	COIL	2	
P2501		VJP1230R	CONNECTOR(MALE) 3P	1	
P2502		VJP1230T	CONNECTOR(MALE) 3P	1	
P2503		VJP1511T	CONNECTOR(MALE)	1	
P2505,06		VJS1412	CONNECTOR(FEMALE)	2	
P2507		VJP1232T	CONNECTOR(MALE) 5P	1	
Q2501		2SD636	TRANSISTOR	1	<R>
QR2501-04		MRN1404	TRANSISTOR	4	<R>
QR2505,06		MRN2404	TRANSISTOR	2	<R>
QR2507		MRN1404	TRANSISTOR	1	<R>
QR2508		UN2215	TRANSISTOR-RESISTOR	1	<R>
QR2509,10		MRN1404	TRANSISTOR	2	<R>
QR2511		UN2215	TRANSISTOR-RESISTOR	1	<R>
QR2512		MRN1404	TRANSISTOR	1	<R>
QR2513,14		MRN2404	TRANSISTOR	2	<R>
QR2515-18		MRN1404	TRANSISTOR	4	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			RESISTORS		
R2501		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R2502		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R2503		ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1	
R2504		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2505,06		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R2507		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R2508		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R2509		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R2510		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R2511		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R2512		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2513		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2514,15		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R2516		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2517		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R2518		ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R2519		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2520		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2521		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R2522		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R2523		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2524		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R2525		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2526		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2527		ERJ6GEYJ823	M.RESISTOR CH 1/10W 82K	1	
R2528		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R2529		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R2530		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2531		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2532		ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R2533		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R2534		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R2535		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R2536		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R2537		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R2538		ERJ6GEYG363	M.RESISTOR CH 1/10W 36K	1	
R2539		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R2540		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R2541		ERJ6GEYJ184	M.RESISTOR CH 1/10W 180K	1	
R2542		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R2543		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R2544		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R2545		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2546		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2547		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2548		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2549-53		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	5	
R2554		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2555		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2556		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R2557		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2558		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2559		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R2560-64		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	5	
R2565,66		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R2567		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2568		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2569		ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R2570,71		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R2572		ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R2573		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2574		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R2575,76		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R2577		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R2578,79		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R2580		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2581		ERX12SJ1R0	M.RESISTOR 1/2W 1	1	
R2582		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R2583		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R2584		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R2585		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2586		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2587		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R2588		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2589		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2591,92		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R2593		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R2594		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2595		ERX12SJR56	M.RESISTOR 1/2W 0.56	1	
R2596		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R2597		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R2598		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R2599		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2600		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2602,03		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R2604		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R2605		ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R2606		ERJ6GEYG202	M.RESISTOR CH 1/10W 2K	1	
R2607		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2608		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
RA2501,02		EXBLD4103G	COMBI.R-R 10K	2	
X2501		VSX0128	CRYSTAL OSCILLATOR	1	<R>
	■	VEP03877A	P.C.BOARD W/COMPONENT		
			VIDEO (1)		
			CAPACITORS		
C3001		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3004		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C3006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3007		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3008,09		ECEA1CU220	E.CAPACITOR 16V 22U	2	
C3011		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3012		ECEA1AN220S	E.CAPACITOR 10V 22U	1	
C3013		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3014,15		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C3016		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3017,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3020,21		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3022		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3023		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3024		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3025		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3026		ECEA1HN4R7S	E.CAPACITOR 50V 4.7U	1	
C3027		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3028		ECEA1HN2R2S	E.CAPACITOR 50V 2.2U	1	
C3029		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3031		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C3032		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C3033		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	1	
C3034		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3035		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3036		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3037		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3038		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C3039		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3040		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C3041		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C3042		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3043		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3044		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3045		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3046		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3047		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3048		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C3050		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3051,52		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3053		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3054		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3055-57		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3058		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C3059		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3060		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3061,62		ECEA1CN100S	E.CAPACITOR 16V 10U	2	
C3063		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3064		ECEA1CN220S	E.CAPACITOR 16V 22U	1	
C3065		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3066		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3068		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3069		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3070		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3071		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3072		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C3074		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3075		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3076		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3077		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3078		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3082		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3083-86		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3087		ECUM1H030DCN	C.CAPACITOR CH 50V 3P	1	
C3088,89		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	2	
C3090		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3091		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3092		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3093		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3094		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C3095		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3096		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3097		ECUM1H020DCN	C.CAPACITOR CH 50V 2P	1	
C3098		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3099		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3100		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3102		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C3103		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3104		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C3105-07		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3108		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3109-12		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3113		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3114,15		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3116		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3117		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3118		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3119,20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3121		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3122		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3123		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3124		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3125		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
C3126-29		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3130		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3131		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3132		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3134		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3135		ECQV1H564JZ	P.CAPACITOR 50V 0.56U	1	
C3136		ECQV1H394JZ	P.CAPACITOR 50V 0.39U	1	
C3137		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3138		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3139		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3140		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3141		ECCF1H270JC	C.CAPACITOR 50V 27P	1	
D3002,03		MA151K	DIODE	2	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D3004		MA151WK	DIODE	1	<R>
D3005,06		MA151K	DIODE	2	<R>
D3007		MA151WK	DIODE	1	<R>
D3008		1SS283	DIODE	1	<R>
FL3001		VLF0499	FILTER	1	
FL3002		ELB4L121	FILTER	1	
FL3003		VLF0878	FILTER	1	
FL3004		VLF0639	FILTER	1	
FL3005		ELB4M022	FILTER	1	
FL3006		ELB5A066	FILTER	1	
FL3007		ELB4R031	FILTER	1	
FL3008,09		ELB4K114	FILTER	2	
IC3001		NJM2233BMA	IC	1	<R>
IC3002		MC74HC4053F	IC	1	<R>
IC3003		NJM2233BMA	IC	1	<R>
IC3004		VEFH07C	IC	1	<R>
IC3005		M52065FP	DIODE	1	<R>
IC3006		VEFH05BT	IC	1	<R>
IC3007		M52054SP	IC	1	<R>
IC3008		AN6308S	IC	1	<R>
JW3001		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
L3002		VLQEL05S121J	COIL 120UH	1	
L3003-05		VLQEL05S101J	COIL 100UH	3	
L3006,07		VLP0083	FILTER	2	
L3008		VLQEL05S330J	COIL 33UH	1	
L3009		VLQEL05S220J	COIL 22UH	1	
L3010		VLQEL05S820J	COIL 82UH	1	
L3011		VLQEL05S101J	COIL 100UH	1	
L3012,13		VLQEL05S151J	COIL 150UH	2	
L3014		VLQEL05S101J	COIL 100UH	1	
L3015		VLP0083	FILTER	1	
L3016		VLQEL05S101J	COIL 100UH	1	
L3020,21		VLQEL05S5R6J	COIL 5.6UH	2	
L3022		VLQEL05S101J	COIL 100UH	1	
L3023		VLQEL05S120J	COIL 12UH	1	
L3024		VLQEL05S270J	COIL 27UH	1	
L3025		VLQEL05S181J	COIL 180UH	1	
L3026		VLQEL05S101J	COIL 100UH	1	
L3027,28		VLQEL05S100J	COIL 10UH	2	
L3029		VLQEL05S220J	COIL 22UH	1	
L3030,31		VLQEL05S101J	COIL 100UH	2	
L3033		VLQEL05S560J	COIL 56UH	1	
L3034		VLQEL05S6R8J	COIL 6.8UH	1	
L3035		VLQEL05S4R7J	COIL 4.7UH	1	
L3036		VLQEL05S151J	COIL 150UH	1	
L3037		VLQEL05S220J	COIL 22UH	1	
L3038		VLQEL05S681J	COIL 680UH	1	
P3001		VJP1238T	CONNECTOR (MALE) 11P	1	
P3002		VJP3176B064	CONNECTOR (MALE) 64P	1	
Q3001,02		MSD601-R	TRANSISTOR	2	<R>
Q3005		MSD601-R	TRANSISTOR	1	<R>
Q3008		MSC2295-B	TRANSISTOR	1	<R>
Q3009		MSB709-R	TRANSISTOR	1	<R>
Q3010		2SA1022-B	TRANSISTOR	1	<R>
Q3011		MSC2295-B	TRANSISTOR	1	<R>
Q3012		2SD1330	TRANSISTOR	1	<R>
Q3013		MSB709-R	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q3014		MSC2295-B	TRANSISTOR	1	<R>
Q3015-18		MSD601-R	TRANSISTOR	4	<R>
Q3019-21		MSC2295-B	TRANSISTOR	3	<R>
Q3022		MSB709-R	TRANSISTOR	1	<R>
Q3023-25		MSC2295-B	TRANSISTOR	3	<R>
Q3027		MSC2295-B	TRANSISTOR	1	<R>
Q3028,29		MSD601-R	TRANSISTOR	2	<R>
Q3030		MSC2295-B	TRANSISTOR	1	<R>
QR3001-03		MRN1404	TRANSISTOR	3	<R>
QR3004		UN2110	TRANSISTOR-RESISTOR	1	<R>
QR3005		UN1113	TRANSISTOR-RESISTOR	1	<R>
QR3006		MRN1404	TRANSISTOR	1	<R>
QR3008		MRN1403	TRANSISTOR	1	<R>
QR3013		MRN1404	TRANSISTOR	1	<R>
QR3014		DTC363EK	TRANSISTOR-RESISTOR	1	<R>
QR3015-20		MRN1404	TRANSISTOR	6	<R>
QR3021		MRN2404	TRANSISTOR	1	<R>
QR3022		MRN1404	TRANSISTOR	1	<R>
			RESISTORS		
R3001		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3002		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3003		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R3005		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3007		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3008		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3009		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3010		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3011		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3012		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3013		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R3014		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3015		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3016,17		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R3018		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3019		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3020		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3021,22		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R3023-25		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	3	
R3026		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3027		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3028		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R3029		ERJ6GEYJ112	M.RESISTOR CH 1/10W 1.1K	1	
R3031		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3032		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3033		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3034		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3035		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3036,37		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3038		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3040		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3041		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3042		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3043		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3044		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3045		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3046		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3047		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3048		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3049		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3050		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3051		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3052		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3053		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3054		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3055,56		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R3057		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3058		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3060		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3063		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3064		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3065,66		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R3067		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3068		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3073		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R3074		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3075		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3076		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3077		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3078,79		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3080		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3081		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3082		ERJ6GEYG911	M.RESISTOR CH 1/10W 910	1	
R3085		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3089		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3091		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R3092		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3093		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3094-96		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	3	
R3097		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3099		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3100		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3101,02		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	2	
R3103		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3104		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3105		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3106		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3107		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3108		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3109		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3110		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3111		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R3112		ERJ6GEYJ184	M.RESISTOR CH 1/10W 180K	1	
R3113		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3114		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R3115,16		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3119		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3120		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3121		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3122		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3123		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3124		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3125		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3126		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3127		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3128		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3129		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3130		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3131		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3132		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3133		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3134		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3135		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3136		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3137		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3138		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3141		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3142		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3143		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3144		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3145		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3146		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3147		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3148		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3149		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3150		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3151		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3152		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3153		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3154		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3155-58		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	4	
R3161		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3162		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3163		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3164		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3165		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3166		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3167		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3168		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3169,70		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R3171		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3172		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R3173		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3174		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3175		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3176		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3177		ERDS2TJ682	C.RESISTOR 1/4W 6.8K	1	
VR3001,02		EVN32CA00B13	V.RESISTOR 1K	2	
VR3003		EVN32CA00B52	V.RESISTOR 500	1	
VR3004		EVN32CA00B13	V.RESISTOR 1K	1	
VR3005		EVN32CA00B52	V.RESISTOR 500	1	
VR3006		EVMF6SA00B14	V.RESISTOR 10K	1	
VR3007		EVN32CA00B54	V.RESISTOR 50K	1	
VR3008		EVN32CA00B24	VARIABLE 20K	1	
	■	VEP03878A	P.C.BOARD W/COMPONENT		INCLUDING THE
			VIDEO (2)		CCD UNIT (VEP03880A)
			CAPACITORS		
C8001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8002		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8003		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C8004		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C8005		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C8006		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C8007		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C8008		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	1	
C8009		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C8010		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8011		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8012,13		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	2	
C8014		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	1	
C8015		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C8016		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8017		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8018-22		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C8023		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C8024		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C8025		ECV1ZW20X53T	V.CAPACITOR 20P	1	
C8026		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C8027,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8029		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C8030		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C8031		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C8032		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C8033		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C8034		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C8035		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C8037		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C8038,39		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8040,41		ECEA1CU100	E.CAPACITOR 16V 10U	2	
C8042,43		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8044		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C8045		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C8046		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8047		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C8048		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C8049		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C8050		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8051		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C8052		ECEA0JN470S	E.CAPACITOR 6.3V 47U	1	
C8053		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C8054		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C8055		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8056		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C8057		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C8058		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C8059		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C8060		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C8061		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C8062,63		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8064		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8065		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8066		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C8067		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8068		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8069,70		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8071		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C8072		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C8073		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8074		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C8075,76		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8077		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C8078		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8079		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8080		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C8081		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C8082		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8083		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C8084,85		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8089,90		ECUM1H333ZFN	C.CAPACITOR CH 50V 0.033U	2	
C8092		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8095		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C8097		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8098		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8099,00		ECEA0JN470S	E.CAPACITOR 6.3V 47U	2	
C8101		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8102		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8103		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8104		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C8105		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8106		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C8107,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8109		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C8110		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C8112-14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C8115		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8116		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C8117		ECCF1H560JC	C.CAPACITOR 50V 56P	1	
C8501		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C8502		ECEA1CKS470	E.CAPACITOR 16V 47U	1	
C8503		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8504		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C8505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8506		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C8507		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8508		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C8509,10		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	2	
C8511		ECEA0JKN470	E.CAPACITOR 6.3V 47U	1	
C8512		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C8514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8515		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C8516		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	1	
C8517,18		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C8519		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C8520,21		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
D8001		MA151K	DIODE	1	<R>
D8002		MA153	DIODE	1	<R>
D8003		MA151K	DIODE	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D8004		MA3091-M	DIODE	1	<R>
D8005,06		MA151K	DIODE	2	<R>
D8007		MA151WK	DIODE	1	<R>
D8008,09		MA151K	DIODE	2	<R>
D8010,11		MA151WK	DIODE	2	<R>
D8012		MA151K	DIODE	1	<R>
D8014		MA151K	DIODE	1	<R>
D8015		MA165VT	DIODE	1	<R>
DL8001		EFDVR645A45A	DELAY LINE	1	
DL8002		VLD0147	DELAY LINE	1	
DL8003		VLD0089	DELAY LINE	1	
FL8001		VLF0299	FILTER	1	
FL8002		ELB4R049	FILTER	1	
FL8003		VLD0125	DELAY LINE	1	
FL8004		VLD0153	FILTER	1	
FL8501,02		VLF0523	FILTER	2	
FL8503,04		VLF0526	FILTER	2	
FL8505		ELB4H054	FILTER	1	
IC8001		VCR0284	IC	1	
IC8002		NJM2233BMA	IC	1	
IC8003		AN3495K	IC	1	
IC8004		MSM6871RS	IC	1	
IC8005		M52079SP	IC	1	
IC8006,07		NJM2233BMA	IC	2	
IC8504		CXL1009P	IC	1	
IC8505		AN78L09	IC	1	
JW8001,02		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
L8001-03		VLQEL05S101J	COIL 100UH	3	
L8004,05		VLQEL05S150J	COIL 15UH	2	
L8006		VLQEL05S330J	COIL 33UH	1	
L8007,08		VLQEL05S101J	COIL 100UH	2	
L8009,10		VLQEL05S681J	COIL 680UH	2	
L8011		VLQEL05S331J	COIL 330UH	1	
L8013		VLQEL05S470J	COIL 47UH	1	
L8014		VLQEL05S150J	COIL 15UH	1	
L8015		VLQEL05S101J	COIL 100UH	1	
L8016		VLP0083	FILTER	1	
L8017		VLQEL05S101J	COIL 100UH	1	
L8018		VLQEL05S270J	COIL 27UH	1	
L8019,20		VLQEL05S101J	COIL 100UH	2	
L8021,22		VLQEL05S150J	COIL 15UH	2	
L8023		VLQEL05S151J	COIL 150UH	1	
L8024-28		VLQEL05S101J	COIL 100UH	5	
L8029		VLQEL05S151J	COIL 150UH	1	
L8031		VLQEL05S221J	COIL 220UH	1	
L8501-03		VLQEL05K101J	COIL 100UH	3	
L8510		VLP0053	COIL	1	
P8001		VJP2776	CONNECTOR (MALE) 64P	1	
P8002		VJP2775	CONNECTOR (MALE) 3P	1	
P8003		VJP3176B064	CONNECTOR (MALE) 64P	1	
P8506		VJS2776	CONNECTOR (FEMALE) 3P	1	
P8507		VJS2775	CONNECTOR (FEMALE) 2P	1	
Q8001		MSB709-R	TRANSISTOR	1	<R>
Q8002-04		MSD601-R	TRANSISTOR	3	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q8005-08		MSC2295-B	TRANSISTOR	4	<R>
Q8009		MSD601-R	TRANSISTOR	1	<R>
Q8010		MSC2295-B	TRANSISTOR	1	<R>
Q8011,12		MSB709-R	TRANSISTOR	2	<R>
Q8013		MSD601-R	TRANSISTOR	1	<R>
Q8017		MSC2295-B	TRANSISTOR	1	<R>
Q8018		2SA1022-B	TRANSISTOR	1	<R>
Q8019		MSD601-R	TRANSISTOR	1	<R>
Q8020		MSC2295-B	TRANSISTOR	1	<R>
Q8021,22		MSD601-R	TRANSISTOR	2	<R>
Q8506		MSC2295-B	TRANSISTOR	1	<R>
Q8507		MSB709-R	TRANSISTOR	1	<R>
Q8508		MSC2295-B	TRANSISTOR	1	<R>
QR8001		MRN1404	TRANSISTOR	1	<R>
QR8002		XN1213	TRANSISTOR-TRANSISTOR	1	<R>
QR8003-07		MRN1404	TRANSISTOR	5	<R>
QR8009		MRN1404	TRANSISTOR	1	<R>
QR8010		MRN1402	TRANSISTOR	1	<R>
QR8011		XN1113	TRANSISTOR-RESISTOR	1	<R>
QR8012		XN1213	TRANSISTOR-TRANSISTOR	1	<R>
QR8013		MRN1404	TRANSISTOR	1	<R>
QR8014		MRN1403	TRANSISTOR	1	<R>
QR8015		MRN2403	TRANSISTOR-RESISTOR	1	<R>
QR8016		MRN1404	TRANSISTOR	1	<R>
QR8017		XN1213	TRANSISTOR-TRANSISTOR	1	<R>
QR8018		MRN1404	TRANSISTOR	1	<R>
QR8019		MRN1402	TRANSISTOR	1	<R>
			RESISTORS		
R8001		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8002		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8003		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R8004		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R8005		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R8006		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R8007,08		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	2	
R8009		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R8010		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8011		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R8012		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R8013,14		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R8015		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R8016		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R8017		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R8018		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R8019		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8020,21		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	2	
R8022		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R8023		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R8024		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8025,26		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	2	
R8027		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R8028		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R8029		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R8030		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8031		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8032		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8033		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R8034		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8035		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8036		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R8037		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8038		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8039		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R8040		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R8041		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R8042		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R8043		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R8044		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R8045		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R8046		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8047		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R8048		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R8049		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R8050		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R8051		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R8052		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8053		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R8054		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R8055		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R8056		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R8057,58		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R8059		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R8060		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R8061		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R8062		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8063		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8064		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R8065		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8066		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8067		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8068		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R8069		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8070		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8071		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8072		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R8073		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8074		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R8075		ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1	
R8076		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R8077		ERJ6GEYG913	M.RESISTOR CH 1/10W 91K	1	
R8078		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R8088		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R8089		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8090		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R8091,92		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R8093		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8100		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R8101,02		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R8103		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R8104		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8105		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8106		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R8107		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8109		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R8110		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R8112		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R8115		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R8116		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8117		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8118		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8119,20		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R8121,22		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R8123		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R8124		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8125		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R8126		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R8127		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8128		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R8129		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
R8130		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R8131		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8132		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8133		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8137,38		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R8501		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R8502		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R8503		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8504		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8505		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R8506		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8507		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R8508,09		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R8510		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8517		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R8535		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
VR8001		EVN32CA00B14	V.RESISTOR 10K	1	
VR8003		EVMF6SA00B13	V.RESISTOR 1K	1	
VR8004		EVN32CA00B24	VARIABLE 20K	1	
VR8005		EVN32CA00B52	V.RESISTOR 500	1	
VR8006		EVN32CA00B13	V.RESISTOR 1K	1	
VR8007		EVN32CA00B24	VARIABLE 20K	1	
VR8009,10		EVN32CA00B13	V.RESISTOR 1K	2	
X8001		VSX0162	CRYSTAL OSCILLATOR	1	<R>
X8002		VSX0316	CRYSTAL OSCILLATOR	1	<R>
X8502		VSX0323	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E36		VSC2911	SHIELD CASE (TOP BOTTOM)	2	
E37		VSC2912	SHIELD CASE (MAIN)	1	
	■	VEP03879A	P.C.BOARD W/COMPONENT		INCLUDING THE CCD
			VIDEO (3)		UNIT (1) (VEP00R78A)
					INCLUDING THE CCD
					UNIT (2) (VEP00R78B)
			CAPACITORS		
C1		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C2		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C4,C5		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7		ECEA1HKS4R7	E.CAPACITOR 50V 4.7U	1	
C8		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C9		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C10		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C11		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C12		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3501-03		ECEA1CU470	E.CAPACITOR 16V 47U	3	
C3505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3506		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3507,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3510		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3511		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3512		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3513		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3514,15		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C3516		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3517		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3518		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3519,20		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	2	
C3521		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3522		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3523		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3524		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3526		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3528		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3529		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3530		ECUM1H030DCN	C.CAPACITOR CH 50V 3P	1	
C3531		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3533		ECUM1H030DCN	C.CAPACITOR CH 50V 3P	1	
C3534		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3535		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3536		ECEA1VU220	E.CAPACITOR 35V 22U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3537		ECEA1HU100	E.CAPACITOR 50V 10U	1	
C3538		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3539		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3540,41		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3542		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3543		ECEA1HN4R7S	E.CAPACITOR 50V 4.7U	1	
C3544		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3545		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3546		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3547,48		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C3549		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3550		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3551		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3552		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3553		ECEA1HN4R7S	E.CAPACITOR 50V 4.7U	1	
C3554		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3558		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3559		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3560		ECEA1HN010S	E.CAPACITOR 50V 1U	1	
C3561		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3562		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3563,64		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3565		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3566,67		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3568		ECQP1H392JZ	P.CAPACITOR 50V 3900P	1	
C3569		ECEA1HKGR68	E.CAPACITOR 50V 0.68U	1	
C3570		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C3571		ECQB1H152JF	P.CAPACITOR 50V 1500P	1	
C3572		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C3573		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C3574		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3575		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3576		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C3577		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3578		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3579		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C3580		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3581		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3582		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3583		ECEA1HUR22	E.CAPACITOR 50V 0.22U	1	
C3584,85		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3586		ECV1ZW20X53T	V.CAPACITOR 20P	1	
C3587		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3588		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3590		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3591		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3592		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3593		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3594		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3595		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3596		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C3597		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3598		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C3599,00		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	2	
C3601,02		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3603		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3604		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3605		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3606,07		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C3608,09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3610		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3611		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3612		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3613		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3614		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3615		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3616		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3617		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3618		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3619		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3620		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3621,22		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3623		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3624,25		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3626		ECEA1CU100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3627		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3628		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3629		ECEA0JU102	E.CAPACITOR 6.3V 1000U	1	
C3630-32		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3633		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C3634		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3637		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3639		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3640		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3641		ECEA1HN010S	E.CAPACITOR 50V 1U	1	
C3642		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3643		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3644		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3645		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C3646		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3647		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3648,49		ECCF1H120JC	C.CAPACITOR 50V 12P	2	
D1		MA3091-M	DIODE	1	<R>
D3501		MA3200-M	DIODE	1	<R>
D3502-04		MA151K	DIODE	3	<R>
D3505		MA28W-A	DIODE	1	
D3506-09		MA151K	DIODE	4	<R>
DL3501		VLD0127	DELAY LINE	1	
FL3501		VLF0766	FILTER	1	
FL3502		ELXTS470GA	FILTER	1	
FL3503,04		VLF0811	FILTER	2	
FL3506		VLF0765	FILTER	1	
FL3507		ELXTS470GA	FILTER	1	
IC1		MSM6871RS	IC	1	<R>
IC3501		M52065FP	DIODE	1	<R>
IC3502		AN3916	IC	1	<R>
IC3503		UPC78L05J	IC	1	<R>
IC3504		BA7021	IC	1	<R>
IC3505		MN4030BS	IC	1	<R>
IC3507		UPC78L05J	IC	1	<R>
IC3508		NJM2233BMA	IC	1	<R>
IC3509		AN3296S	IC	1	<R>
IC3510		MN1280P	IC	1	<R>
IC3511		M50455-001SP	IC	1	<R>
IC3512		UPC78L05J	IC	1	<R>
IC3513		UPD4066BG	IC	1	<R>
IC3514		BA7607F	IC	1	<R>
IC3515		AN3581S	IC	1	<R>
IC3516		TC7S04F	IC	1	<R>
J3501		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J3503		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
L1		VLQ0460	COIL 100UH	1	
L3501,02		VLQEL05S101J	COIL 100UH	2	
L3503,04		VLP0083	FILTER	2	
L3505-11		VLQEL05S101J	COIL 100UH	7	
L3512		VLQEL05S150J	COIL 15UH	1	
L3514-17		VLQEL05S101J	COIL 100UH	4	
L3518		VLP0083	FILTER	1	
L3519,20		VLQEL05S101J	COIL 100UH	2	
L3521,22		VLQEL05S180J	COIL 18UH	2	
L3523		VLQEL05S101J	COIL 100UH	1	
L3524,25		VLQEL05S560J	COIL 56UH	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P1		VJR0231	PACK PIN	1	
P3501		VJP3176B064	CONNECTOR (MALE) 64P	1	
Q1-Q3		MSC2295-B	TRANSISTOR	3	<R>
Q3501		MSD601-R	TRANSISTOR	1	<R>
Q3502		MSC2295-B	TRANSISTOR	1	<R>
Q3503		2SA1022-B	TRANSISTOR	1	<R>
Q3504		MSD601-R	TRANSISTOR	1	<R>
Q3506		MSC2295-B	TRANSISTOR	1	<R>
Q3507		2SA1022-B	TRANSISTOR	1	<R>
Q3508-10		MSD601-R	TRANSISTOR	3	<R>
Q3511		MSB709-R	TRANSISTOR	1	<R>
Q3512		MSD601-R	TRANSISTOR	1	<R>
Q3513		MSB709-R	TRANSISTOR	1	<R>
Q3514		2SB641	TRANSISTOR	1	<R>
Q3515		MSC2295-B	TRANSISTOR	1	<R>
Q3516		2SA1022-B	TRANSISTOR	1	<R>
Q3517		MSB709-R	TRANSISTOR	1	<R>
Q3519		MSD601-R	TRANSISTOR	1	<R>
Q3520		MSB709-R	TRANSISTOR	1	<R>
Q3521-24		MSD601-R	TRANSISTOR	4	<R>
Q3525		MSB709-R	TRANSISTOR	1	<R>
Q3526-30		MSD601-R	TRANSISTOR	5	<R>
Q3531		MSC2295-B	TRANSISTOR	1	<R>
Q3532		2SA1022-B	TRANSISTOR	1	<R>
Q3533		MSB709-R	TRANSISTOR	1	<R>
Q3534,35		MSD601-R	TRANSISTOR	2	<R>
QR3501		XN1501	TRANSISTOR-TRANSISTOR	1	<R>
QR3502-06		MRN1404	TRANSISTOR	5	<R>
QR3507		MRN1402	TRANSISTOR	1	<R>
QR3508-12		MRN1404	TRANSISTOR	5	<R>
QR3513		XN1213	TRANSISTOR-TRANSISTOR	1	<R>
QR3514-17		MRN1404	TRANSISTOR	4	<R>
QR3520,21		MRN1404	TRANSISTOR	2	<R>
			RESISTORS		
R1		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R2		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4,R5		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R6		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R8		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3501,02		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R3503-05		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R3506		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3507		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3508		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3509		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3510		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3511		ERJ6GEYJ112	M.RESISTOR CH 1/10W 1.1K	1	
R3512		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3513,14		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R3515		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3516		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3517		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3518		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3519		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3520-25		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	6	
R3526		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3527		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
R3528		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3529		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3530		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3531		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3532		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R3534		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3536		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3537		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3538		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3539		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3540-42		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R3544		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3545-47		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R3548		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3549,50		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R3551		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3552		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3553		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R3555		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3556		ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	1	
R3557		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R3558		ERJ6GEYG333	M.RESISTOR CH 1/10W 33K	1	
R3559		ERJ6GEYG133	M.RESISTOR CH 1/10W 13K	1	
R3560		ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R3561		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3562		ERJ6GEYG561	M.RESISTOR CH 1/10W 560	1	
R3563		ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R3564		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3565		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R3566		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3567		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3573,74		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3575		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3576,77		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3578		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3579		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3580		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3581		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3582		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3583		ERJ6GEYG473	M.RESISTOR CH 1/10W 47K	1	
R3584		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3585		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3586		ERJ6GEYJ753	M.RESISTOR CH 1/10W 75K	1	
R3587		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3588		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R3589		ERJ6GEYG113	M.RESISTOR CH 1/10W 11K	1	
R3590,91		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3592		ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R3593		ERJ6GEYJ684	M.RESISTOR CH 1/10W 680K	1	
R3594		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3595		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3596		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3597		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3598		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3599,00		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R3601		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3602		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3603		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3604		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3605		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3606		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3607		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3608		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3609,10		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3611		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3612		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3613		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R3614		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3615		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3616		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3617,18		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R3620		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3621		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R3622		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3623		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3624		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3625		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3626		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R3627,28		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3629		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3630		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3631		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3632		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3633-35		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R3636		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3637		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3638-40		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R3641-43		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R3644		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3645		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3646		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3647		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3648,49		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R3650		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3651-54		ERJ6GEYG750	M.RESISTOR CH 1/10W 75	4	
R3655		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R3656		ERJ6GEYG103	M.RESISTOR CH 1/10W 1K	1	
R3657		ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3658		ERJ6GEYG112	M.RESISTOR CH 1/10W 1.1K	1	
R3659		ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R3660		ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3661		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R3663		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3664		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3667		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3668		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3669		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3670		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3671-73		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R3675		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3676		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3678		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3679		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R3680		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3681		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3682		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
TH3501		ERTD2FHL102S	THERMISTOR 1K	1	
VR3501		EVN32CA00B24	VARIABLE 20K	1	
VR3502,03		EVN32CA00B13	V.RESISTOR 1K	2	
X1		VSX0316	CRYSTAL OSCILLATOR	1	<R>
X3501		VSX0114	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E41		VMX0469	TERMISTOR SPACER	1	
	■	VEP03891B	P.C.BOARD W/COMPONENT		INCLUDING THE
			VIDEO (4)		DIGITAL SUB
					(VEP03899B)
			CAPACITORS		
C3801		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3802,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3804		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3805-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3809		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3810,11		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3812		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3813-16		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3817		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3818,19		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3820		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3821		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3822		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C3823,24		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3825		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3826		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3827		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3828		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3829		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C3830,31		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3832		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3833		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3834		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3835		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3836		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C3837,38		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3839		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3840		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3841		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3842		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3843-59		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	17	
C3860,61		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C3862		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3871		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3883		ECUM1H050DCN	C.CAPACITOR CH 50V 50P	1	
C3891,92		ECEA0JKA470	E.CAPACITOR 6.3V 47U	2	
C3893		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3901		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3902		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3903,04		ECEA0JKA470	E.CAPACITOR 6.3V 47U	2	
C3905,06		ECEA1HKN010	E.CAPACITOR 50V 1U	2	
C3907		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3908,09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3910		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3911		ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	1	
C3912,13		ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	2	
C3914		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3915		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C3916		ECUM1H103KBM	C.CAPACITOR CH 50V 0.01U	1	
C3917		ECUM1E183KBM	C.CAPACITOR CH 25V 0.018U	1	
C3918		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3919		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3920		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3921		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3922		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3923		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3924,25		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3926		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3927		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3928,29		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C3930		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3931		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3932		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3933		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3934		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3935		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3936		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C3937		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C3938		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3939		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C3940,41		ECEA1HKA010	E.CAPACITOR 50V 1U	2	
C3942		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C3943		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C3944		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C3945		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3946		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C3947		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3948		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C3949		ECEA1CKA470	E.CAPACITOR 16V 47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3950		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3951		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3952		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3953		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C3954		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3955		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3955,56		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C3957		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C3958		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C3959		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3960,61		ECQB1H104JF	P.CAPACITOR 50V 0.1U	2	
C3962		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3963		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C3963		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3964		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3965		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3966		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3966		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3966,67		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3968		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C3969		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C3971,72		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3973		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3974		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3975		ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	1	
C3976		ECUM1H104KBM	C.CAPACITOR CH 50V 0.1U	1	
C3977		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3978		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3979		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C3980		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C3981		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3982		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C3983		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3984		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3985,86		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C3987		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3988		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3989		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3990		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3991		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3992		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3993		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3994		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3995		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3996		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3997		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3999		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
D3901		MA151K	DIODE	1	<R>
D3902		1SS283	DIODE	1	<R>
FL3801		VLF0634	FILTER	1	
FL3802,03		VLF0633	FILTER	2	
FL3804		VLF0634	FILTER	1	
FL3805		VLF0633	FILTER	1	
FL3808,09		VLF0634	FILTER	2	
FL3810		VLF0633	FILTER	1	
FL3811,12		VLF0634	FILTER	2	
FL3813		VLF0630	FILTER	1	
FL3814,15		VLF0634	FILTER	2	
FL3816-18		VLF0630	FILTER	3	
FL3819-22		VLF0634	FILTER	4	
FL3901		VLF0875	FILTER	1	
FL3902		VLF0824	FILTER	1	
FL3903		VLF0855	FILTER	1	
FL3904		VLF0824	FILTER	1	
FL3905		ELB4P034	FILTER	1	
IC3801		AN78L05	IC	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC3802		CXD1175AM	IC	1	<R>
IC3803		AN78L05	IC	1	<R>
IC3804		CXD1175AM	IC	1	<R>
IC3805		MC74HC541F	IC	1	<R>
IC3806		MB40778PF	IC	1	<R>
IC3807		AN78N05	IC	1	<R>
IC3808		MB40778PF	IC	1	<R>
IC3809		AN78N05	IC	1	<R>
IC3810		UPD65032F109	IC	1	<R>
IC3811		MB40778PF	IC	1	<R>
IC3812		AN78N05	IC	1	<R>
IC3813		TC7WU04F	IC	1	
IC3814		MC74HC574AF	IC	1	<R>
IC3815		MN1280R	IC	1	<R>
IC3816		MC74HC74AF	IC	1	<R>
IC3817		TC4S30F	IC	1	<R>
IC3818		TCS04F	IC	1	
IC3819-22		TC7S08F	IC	4	<R>
IC3823,24		TC4W53F	IC	2	<R>
IC3851-56		MB81C1501	IC	6	<R>
IC3901		AN3172NFB	IC	1	<R>
IC3902		AN3182NFBP	IC	1	<R>
IC3903		VCR0330	IC	1	<R>
J3891		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J3902		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J3904,05		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
J3907		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
L3801		VLQ0460	COIL 100UH	1	
L3802,03		VLP0083	FILTER	2	
L3891		VLQ0199	COIL	1	
L3901-04		VLQ0460	COIL 100UH	4	
L3905		VLQEL05K470J	COIL 47UH	1	
P3891		VJP3176B064	CONNECTOR (MALE) 64P	1	
P3892		VJS2117	CONNECTOR (FEMALE) 12P	1	
P3893		VJS2135	CONNECTOR (FEMALE) 12P	1	
Q3901		MSD601-R	TRANSISTOR	1	<R>
Q3902,03		MSB709-R	TRANSISTOR	2	<R>
Q3904		MSD601-R	TRANSISTOR	1	<R>
Q3905,06		MSB709-R	TRANSISTOR	2	<R>
Q3907		MSD601-R	TRANSISTOR	1	<R>
Q3908		MSC2295-B	TRANSISTOR	1	<R>
Q3909		2SA1022-B	TRANSISTOR	1	<R>
Q3910,11		MSB709-R	TRANSISTOR	2	<R>
Q3912-14		MSD601-R	TRANSISTOR	3	<R>
Q3915		MSB709-R	TRANSISTOR	1	<R>
Q3916		2SA1022-B	TRANSISTOR	1	<R>
Q3917		MSC2295-B	TRANSISTOR	1	<R>
Q3918-20		MSB709-R	TRANSISTOR	3	<R>
Q3921		MSD601-R	TRANSISTOR	1	<R>
Q3922		MSB709-R	TRANSISTOR	1	<R>
Q3923-25		MSD601-R	TRANSISTOR	3	<R>
Q3926		MSC2295-B	TRANSISTOR	1	<R>
Q3927		MSD601-R	TRANSISTOR	1	<R>
QR3801,02		MRN1404	TRANSISTOR	2	<R>
QR3891,92		MRN1404	TRANSISTOR	2	<R>
QR3901		MRN2404	TRANSISTOR	1	<R>
QR3902		MRN1404	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			RESISTORS		
R3701		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3801-20		ERJ6GEYJ680	M.RESISTOR CH 1/10W 68	20	
R3821		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3822		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R3823		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3824		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3825		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3826		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3827		ERJ6GEYJ680	M.RESISTOR CH 1/10W 68	1	
R3828		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3829		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R3830		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3831		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3832		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R3833		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3834		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R3835		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3836		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3837,38		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	2	
R3839		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3840,41		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	2	
R3842		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3843		ERJ6GEYJ680	M.RESISTOR CH 1/10W 68	1	
R3881		ERDS2TJ183	C.RESISTOR 1/4W 18K	1	
R3882		ERDS2TJ563	C.RESISTOR 1/4W 56K	1	
R3883		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3884		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R3885		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3886		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R3887		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3888		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3889		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R3890		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3891		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3891		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3892		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3893		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3894		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3895,96		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R3897		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3898		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3899		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3900		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3901-04		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	4	
R3905		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3907		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3908		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3909		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3910		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3911		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3912		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R3913		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3914		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3915		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3916		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3917		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3918		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3919,20		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R3921		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3922		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3923		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3924		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3925		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3926		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3927		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R3928		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3929		ERJ6GEYG163	M.RESISTOR CH 1/10W 16K	1	
R3930		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R3931		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3932		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3933		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3934		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3935		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3936		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3937		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3938		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R3939		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3940		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3941		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3942,43		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R3944		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3945		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3946		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3947		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3948		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3949		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3950		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3951		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R3952		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3953		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3955		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3956		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R3957		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3958		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3959,60		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3961		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3962		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R3963,64		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R3965		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R3966		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3967		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3970-74		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	5	
R3975		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3976		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3977,78		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R3979		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3980		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3981		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3982		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3983		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3984		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3985		ERJ6GEYG113	M.RESISTOR CH 1/10W 11K	1	
R3986		ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3987		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3988		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3989		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R3990		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R3992		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R3993		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3994		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3995		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3996		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R3997		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3998,99		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
TH3901		ERTD2FHL102S	THERMISTOR 1K	1	
VR3901		EVN32CA00B24	VARIABLE 20K	1	
VR3902		EVN32CA00B13	V.RESISTOR 1K	1	
VR3903		EVN32CA00B54	V.RESISTOR 50K	1	
VR3904		EVMF6SA00B13	V.RESISTOR 1K	1	
VR3905		EVN32CA00B24	VARIABLE 20K	1	
VR3906,07		EVN32CA00B14	V.RESISTOR 10K	2	
VR3908,09		EVMF6SA00B24	V.RESISTOR 20K	2	
X3801		VSX0127	CRYSTAL OSCILLATOR	1	<R>
X3901,02		VSX0225	CRYSTAL OSCILLATOR	2	<R>
			MISCELLANEOUS		
E91		VSC3523	SHIELD (TOP)	1	
E98		VSC3524	SHIELD (MAIN)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
E39		VSC3525	SHIELD (BOTTOM)	1	
E40		VMX2078	SPACER	3	
E42		VWJ12SW065LL	FLEXIBLE WIRE	1	
	■	VEP04326C	P.C.BOARD W/COMPONENT		
			AUDIO (1)		
			CAPACITORS		
C4001		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4002		ECEA1CU471	E.CAPACITOR 16V 470U	1	
C4003		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4004		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4005,06		ECEA1HU010	E.CAPACITOR 50V 1U	2	
C4007		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4008		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4009		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4011		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4012,13		ECQB1H183JF	P.CAPACITOR 50V 0.018U	2	
C4014		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4015		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4019		ECQB1H182JF	P.CAPACITOR 50V 1800P	1	
C4020		ECEA50M1	E.CAPACITOR 50V 1U	1	
C4021		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4022		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4023		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4024		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4025		ECUM1H331KBN	C.CAPACITOR CH 50V 330P	1	
C4026		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4027		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4029		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4030		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4031		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C4032		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4033		ECEA50ZR68	E.CAPACITOR 50V 0.68U	1	
C4034-36		ECEA1CU100	E.CAPACITOR 16V 10U	3	
C4037		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4039		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4040		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4041		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4042		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C4043		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4044		ECEA50ZR68	E.CAPACITOR 50V 0.68U	1	
C4045-47		ECEA1CU100	E.CAPACITOR 16V 10U	3	
C4048		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C4049		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4050		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4051		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4052		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4053		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4055		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4056		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4057-62		ECEA1CU100	E.CAPACITOR 16V 10U	6	
C4063		ECQB1H272JF	P.CAPACITOR 50V 2700P	1	
C4064		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C4065		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4066		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4067		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4068		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4069		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4070,71		ECQB1H183JF	P.CAPACITOR 50V 0.018U	2	
C4072		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4073		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4077		ECQB1H182JF	P.CAPACITOR 50V 1800P	1	
C4078		ECEA50M1	E.CAPACITOR 50V 1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4079	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4080	ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4081	ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4082	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4083	ECUM1H331KBN	C.CAPACITOR CH 50V 330P	1	
C4084	ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4085	ECEA1CU101	E.CAPACITOR 16V 100U	1	
C4086	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4087	ECEA1HN010S	E.CAPACITOR 50V 1U	1	
C4088	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4089	ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4090	ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C4091	ECQF6182KZ	P.CAPACITOR 630V 1800P	1	
C4092,93	ECCD2H151J	C.CAPACITOR 500V 150P	2	
C4094,95	ECEA1HU4R7	E.CAPACITOR 50V 4.7U	2	
C4096,97	ECQB1H153JF	P.CAPACITOR 50V 0.015U	2	
D4001	MA4056M	DIODE	1	<R>
D4002	MA151WA	DIODE	1	<R>
D4003	MA151K	DIODE	1	<R>
D4004	MA151WA	DIODE	1	<R>
D4006	MA151WA	DIODE	1	<R>
D4007	MA151K	DIODE	1	<R>
D4008,09	MA3030	DIODE	2	<R>
D4010	MA151WK	DIODE	1	<R>
D4011,12	MA165VT	DIODE	2	<R>
D4013	MA151K	DIODE	1	<R>
D4014	MA151WA	DIODE	1	<R>
D4015	MA151WK	DIODE	1	<R>
D4016,17	MA151K	DIODE	2	<R>
FL4001,02	VLF0402	FILTER	2	
IC4001,02	LA7296	IC	2	<R>
IC4003	CXA1101P	IC	1	<R>
IC4004	RC4558M	IC	1	<R>
IC4005	AN6912S	IC	1	<R>
L4001	VLQEL07F153J	COIL 15MH	1	
L4002	VLQ24F102K25	COIL	1	
L4004	VLQEL07F153J	COIL 15MH	1	
P4001	VJP3176B064	CONNECTOR (MALE) 64P	1	
P4002	VJP1230R	CONNECTOR (MALE) 3P	1	
P4003	VJP1230T	CONNECTOR (MALE) 3P	1	
P4004	VJP1231T	CONNECTOR (MALE) 4P	1	
Q4001	2SD639	TRANSISTOR	1	(Q,R,S)<R>
Q4002	MSB710-R	TRANSISTOR	1	<R>
Q4003	2SD1328-R	TRANSISTOR CHIP	1	(R,S)<R>
Q4004	MSD601-R	TRANSISTOR	1	<R>
Q4005	2SD1328-R	TRANSISTOR CHIP	1	(R,S)<R>
Q4006	MSD601-R	TRANSISTOR	1	<R>
Q4007	2SD1328-R	TRANSISTOR CHIP	1	(R,S)<R>
Q4008	2SB643	TRANSISTOR	1	<R>
Q4009	2SD973A-R	TRANSISTOR	1	<R>
Q4010-17	2SD814	TRANSISTOR	8	(Q,R,S)<R>
Q4018,19	2SB779-R	TRANSISTOR	2	(R,S)<R>
Q4020	MSD602-R	TRANSISTOR	1	<R>
Q4021	MSD601-R	TRANSISTOR	1	<R>
Q4022,23	2SB792	TRANSISTOR	2	(Q,R,S)<R>
Q4024	MSD601-R	TRANSISTOR	1	<R>
Q4025,26	2SB792	TRANSISTOR	2	(Q,R,S)<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q4027,28	MSD601-R	TRANSISTOR	2	<R>
Q4029	2SD1328-R	TRANSISTOR CHIP	1	(R,S)<R>
QR4001,02	MRN2404	TRANSISTOR	2	<R>
QR4003	MRN1402	TRANSISTOR	1	<R>
QR4004	MRN2404	TRANSISTOR	1	<R>
QR4005	MRN1402	TRANSISTOR	1	<R>
QR4006	MRN2404	TRANSISTOR	1	<R>
QR4007,08	MRN1404	TRANSISTOR	2	<R>
QR4009	MRN1402	TRANSISTOR	1	<R>
QR4010	MRN1404	TRANSISTOR	1	<R>
QR4011	MRN2404	TRANSISTOR	1	<R>
QR4012,13	MRN1404	TRANSISTOR	2	<R>
QR4014	MRN2404	TRANSISTOR	1	<R>
QR4015	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4016	MRN1402	TRANSISTOR	1	<R>
QR4017	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4020	MRN1404	TRANSISTOR	1	<R>
QR4021	UN2115	COMBINATION PARTS	1	<R>
QR4022-24	MRN1404	TRANSISTOR	3	<R>
QR4025	UN2115	COMBINATION PARTS	1	<R>
QR4026,27	MRN1404	TRANSISTOR	2	<R>
QR4028	MRN2404	TRANSISTOR	1	<R>
QR4029	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4030,31	MRN1404	TRANSISTOR	2	<R>
QR4033	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4034	MRN2404	TRANSISTOR	1	<R>
QR4035	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4038	MRN1404	TRANSISTOR	1	<R>
QR4039	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4040,41	MRN1404	TRANSISTOR	2	<R>
QR4042	MRN1402	TRANSISTOR	1	<R>
QR4043	MRN1404	TRANSISTOR	1	<R>
QR4044,45	MRN2404	TRANSISTOR	2	<R>
QR4046	MRN1403	TRANSISTOR	1	<R>
QR4047-50	MRN1404	TRANSISTOR	4	<R>
		RESISTORS		
R4001	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R4002	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4003,04	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R4005	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R4006	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4007,08	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4009	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4010	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R4011	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R4012	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4013-15	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R4016	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4017	ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4018	ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R4019	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4020	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4021-23	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R4024	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4025	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4026	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R4027	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4028	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4029	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4030	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4031	ERJ6GEYJ680	M.RESISTOR CH 1/10W 68	1	
R4032	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4033	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4034,35	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R4036	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4037	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4038,39	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4040	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4041	ERJ6GEYJ684	M.RESISTOR CH 1/10W 680K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4042		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4043		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4044		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4045		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4046		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4047		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4048		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R4049		ERDS2TJ4R7	C.RESISTOR 1/4W 4.7	1	
R4050		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4051		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R4052		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4053		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4054		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R4055		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4056		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4057		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4058		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4059		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4060		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4061		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4062		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4063		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4064		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4065		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4066		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
R4068		ERDS2TJ2R2	C.RESISTOR 1/4W 2.2	1	
R4069		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4070		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R4074		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4075		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4076		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R4077		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R4078		ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4079		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4080		VRE0034E123	M.RESISTOR CH 1/10W 12K	1	
R4081-83		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	3	
R4084		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4085		VRE0034E123	M.RESISTOR CH 1/10W 12K	1	
R4086		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4087		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4088		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
R4090		ERDS2TJ2R2	C.RESISTOR 1/4W 2.2	1	
R4091		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4095		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4096		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R4097		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4098		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R4099		ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4100		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4101		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R4102,03		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R4104		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4105		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4106		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4107		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4108		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4109		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4110		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R4111		ERDS2TJ2R2	C.RESISTOR 1/4W 2.2	1	
R4112		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4113		VRE0034E433	M.RESISTOR CH 1/10W 43K	1	
R4114		ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4115		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4116		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4117		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4118		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4119		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R4120		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4121		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4122		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R4123		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4125		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4126		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4127		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R4128		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4129		ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4130		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4131		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4132		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4133		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4134		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R4135		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4136		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4137		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R4138-48		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	11	
R4150,51		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4152		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4153-58		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	6	
R4159		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
RY4001-03		VSY2067	RELAY	3	
T4001		VLT0538	TRANSFORMER	1	
VR4001		EVN32CA00B53	V.RESISTOR 5K	1	
VR4002		EVN32CA00B15	V.RESISTOR 100K	1	
VR4003		EVN32CA00B25	V.RESISTOR 200K	1	
VR4004		EVN32CA00B15	V.RESISTOR 100K	1	
VR4005		EVN32CA00B14	V.RESISTOR 10K	1	
VR4006		EVN32CA00B24	VARIABLE 20K	1	
VR4007		EVN32CA00B14	V.RESISTOR 10K	1	
VR4008		EVN32CA00B24	VARIABLE 20K	1	
VR4009		EVN32CA00B25	V.RESISTOR 200K	1	
VR4010,11		EVN32CA00B14	V.RESISTOR 10K	2	
			MISCELLANEOUS		
E44		VSC3424	SHIELD (TOP)	1	
E45		VSC3425	SHIELD (MAIN)	1	
E46		VSC3426	SHIELD (BOTTOM)	1	
	■	VEP04327C	P.C.BOARD W/COMPONENT		
			AUDIO (2)		
			CAPACITORS		
C4501		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4502		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4503-05		ECEA1CPZ100	E.CAPACITOR 16V 10U	3	
C4506		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4507,08		ECEA1CPZ100	E.CAPACITOR 16V 10U	2	
C4509,10		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C4511		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4512		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4513		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4514		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4515		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4516		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C4517,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4519		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4520		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C4521,22		ECEA1CPZ100	E.CAPACITOR 16V 10U	2	
C4523		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4524		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4525		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C4526		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C4527,28		ECEA1CPZ100	E.CAPACITOR 16V 10U	2	
C4529,30		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4531		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4532		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4533		ECEA1CPZ100	E.CAPACITOR 16V .10U	1	
C4534		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4535		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4536,37		ECEA1CU100	E.CAPACITOR 16V 10U	2	
C4538		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4539		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4540		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4541		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4542,43		ECEA1CPZ100	E.CAPACITOR 16V 10U	2	
C4544		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4545		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4546		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4547		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4548		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4549		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4550		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4551		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4552		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4553		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4554,55		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4556		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4557		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4558,59		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	2	
C4560,61		ECEA1CU100	E.CAPACITOR 16V 10U	2	
C4562		ECEA1HN010S	E.CAPACITOR 50V 1U	1	
C4563		ECEA1CU221	E.CAPACITOR 16V 220U	1	
C4564,65		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4566		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4701,02		ECEA1HPZ3R3	E.CAPACITOR 50V 3.3U	2	
C4703		ECQB1H102JF	P.CAPACITOR 50V 1000P	1	
C4704		ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C4705		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4706		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4707		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4708		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4709		ECEA1CPZ470	E.CAPACITOR 16V 47U	1	
C4710		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4711		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4712-14		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C4715		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4716		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C4717		ECEA1CU471	E.CAPACITOR 16V 470U	1	
C4718		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4719,20		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4721		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4722		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C4723		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C4724		ECEA0JU330	E.CAPACITOR 6.3V 33U	1	
C4725		ECQV1H274JZ	P.CAPACITOR 50V 0.27U	1	
C4726,27		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4729		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4730		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4731		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4732		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C4733		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4734-36		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C4737		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4738		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4739		ECEA1CPZ470	E.CAPACITOR 16V 47U	1	
C4740		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4741		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4742		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4743		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4744		ECEA1HPZ010	E.CAPACITOR 50V 1U	1	
C4745		ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C4746,47		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	2	
C4748		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4749,50		ECEA1APZ101	E.CAPACITOR 10V 100U	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4751		ECEA1CPZ470	E.CAPACITOR 16V 47U	1	
C4752		ECEA1CPZ220	E.CAPACITOR 16V 22U	1	
C4755,56		ECEA1CPZ100	E.CAPACITOR 16V 10U	2	
C4758		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4759		ECQB1H102JF	P.CAPACITOR 50V 1000P	1	
C4760		ECEA1HPZ010	E.CAPACITOR 50V 1U	1	
C4761		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4762		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4763		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4764		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4765		ECQB1H823JF	P.CAPACITOR 50V 0.082U	1	
C4766,67		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
D4503		MA153	DIODE	1	<R>
D4504		MA3043	DIODE	1	<R>
D4505,06		OA90	DIODE	2	
D4507		MA3043	DIODE	1	<R>
D4508,09		OA90	DIODE	2	
D4511,12		MA700	DIODE	2	<R>
FL4701		VLF0826	FILTER	1	
FL4702		VLF0825	FILTER	1	
IC4501,02		RC4558M	IC	2	<R>
IC4503,04		MC14052BF	IC	2	<R>
IC4505		M51132L	IC	1	<R>
IC4506		RC4558M	IC	1	<R>
IC4507		MC14053BF	IC	1	<R>
IC4508-10		RC4558M	IC	3	<R>
IC4511		MC14053BF	IC	1	<R>
IC4512		MC14066BF	IC	1	<R>
IC4513		NJM4556D	IC	1	<R>
IC4514		RC4558M	IC	1	<R>
IC4701		BA7705K1	IC	1	<R>
IC4702		UPC78N05H	IC	1	<R>
IC4703		AN3912	IC	1	<R>
L4501-04		VLQEL05S101J	COIL 100UH	4	
L4703-05		VLQEL05S101J	COIL 100UH	3	
P4501		VJP3176B064	CONNECTOR (MALE) 64P	1	
P4701		VJP1238T	CONNECTOR (MALE) 11P	1	
Q4501		MSB709-R	TRANSISTOR	1	<R>
Q4502-08		2SD1328-R	TRANSISTOR CHIP	7	(R,S)<R>
Q4509		MSD601-R	TRANSISTOR	1	<R>
Q4510,11		2SD1328-R	TRANSISTOR CHIP	2	(R,S)<R>
Q4701,02		2SD1328-R	TRANSISTOR CHIP	2	(R,S)<R>
Q4703		2SD636-R	TRANSISTOR	1	(R,S)<R>
Q4704,05		MSD601-R	TRANSISTOR	2	<R>
Q4706		XN1501	TRANSISTOR-TRANSISTOR	1	<R>
Q4707		2SB790	TRANSISTOR	1	<R>
QR4501-03		MRN1404	TRANSISTOR	3	<R>
QR4504		MRN1403	TRANSISTOR	1	<R>
QR4505		MRN1404	TRANSISTOR	1	<R>
QR4701		MRN2404	TRANSISTOR	1	<R>
QR4702		MRN1402	TRANSISTOR	1	<R>
QR4703		MRN1404	TRANSISTOR	1	<R>
QR4706		MRN2404	TRANSISTOR	1	<R>
QR4707,08		MRN1404	TRANSISTOR	2	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR4709,10		MRN2404	TRANSISTOR	2	<R>
QR4711,12		MRN1404	TRANSISTOR	2	<R>
QR4713		MRN2404	TRANSISTOR	1	<R>
QR4714		MRN1404	TRANSISTOR	1	<R>
QR4715		MRN1403	TRANSISTOR	1	<R>
			RESISTORS		
R4501		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4502		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4503		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4504		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4505		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4506		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4507		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4508		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4509		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4510		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4511		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4512-14		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	3	
R4515,16		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4517-20		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	4	
R4521-24		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	4	
R4525,26		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R4527,28		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4529		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4530		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4531		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4532		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4533		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4534		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4535		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4536		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4537-40		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	4	
R4541,42		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R4543-46		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	4	
R4547,48		ERJ6GEYG682	M.REISITOR CH 1/10W 6.8K	2	
R4549,50		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4551		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4552		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4553		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4554		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4555		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4556		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4557		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4558		ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
R4559,60		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4561		ERJ6GEYG822	M.RESISTOR CH 1/10W 8.2K	1	
R4562		ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4563,64		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4565		ERJ6GEYG822	M.RESISTOR CH 1/10W 8.2K	1	
R4566		ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4567		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4568		ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
R4569		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4570		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4571		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R4572		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4573-80		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	8	
R4581		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4701		ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R4702		ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4703		ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R4704		VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R4705		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R4706		ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R4707		ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4708		ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4709		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4710,11		VRE0034E223	M.RESISTOR CH 1/10W 22K	2	
R4712		VRE0034E393	M.RESISTOR CH 1/10W 39K	1	
R4713		VRE0034E163	M.RESISTOR CH 1/10W 16K	1	
R4714		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R4715		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4716,17		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R4718		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4719		ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4720		ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4721		ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R4722		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R4723		VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R4724		ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4725,26		ERJ6GEYG821	M.RESISTOR CH 1/10W 820	2	
R4727		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4728		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4731,32		ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R4733,34		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R4735,36		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R4738		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R4742		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4744		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4745		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R4746		ERJ6GEYG512	M.RESISTOR CH 1/10W 5.1K	1	
R4747		ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4748		ERJ6GEYG512	M.RESISTOR CH 1/10W 5.1K	1	
R4749		ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4750		ERJ6GEYG303	M.RESISTOR CH 1/10W 30K	1	
R4751		ERJ6GEYG113	M.RESISTOR CH 1/10W 11K	1	
R4752		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4754		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4755		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4757		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4758,59		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R4760		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4761		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R4762		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4764,65		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R4766		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4767		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R4768		ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4769		ERJ6GEYG303	M.RESISTOR CH 1/10W 30K	1	
R4770,71		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R4772,73		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4825		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
VR4501,02		EVN32CA00B13	V.RESISTOR 1K	2	
VR4503,04		EVN32CA00B53	V.RESISTOR 5K	2	
VR4701,02		EVN32CA00B13	V.RESISTOR 1K	2	
VR4703		EVMF6SA00B14	V.RESISTOR 10K	1	
VR4704		EVN32CA00B24	VARIABLE 20K	1	
VR4705		EVMF6SA00B25	V.RESISTOR 200K	1	
VR4706		EVN32CA00B14	V.RESISTOR 10K	1	
VR4707		EVN32CA00B54	V.RESISTOR 50K	1	
VR4708		EVN32CA00B25	V.RESISTOR 200K	1	
VR4709		EVN32CA00B24	VARIABLE 20K	1	
VR4710		EVMF6SA00B25	V.RESISTOR 200K	1	
VR4711		EVMF6SA00B53	V.RESISTOR 5K	1	
VR4712		EVN32CA00B24	VARIABLE 20K	1	
	■	VEP05162C	P.C.BOARD W/COMPONENT		
			HEAD AMP		
			CAPACITORS		
C5001		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5002,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5004		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C5005		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C5006-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C5009		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C5010		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5011		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C5012		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C5013		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5014		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C5015		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5016		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5017		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C5018,19		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	2	
C5020		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5021		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C5022		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5023		ECUM1H020DCN	C.CAPACITOR CH 50V 2P	1	
C5024,25		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5026		ECUM1H020DCN	C.CAPACITOR CH 50V 2P	1	
C5027		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5028		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5029		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5030		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5031		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5032,33		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5034		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5035		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C5036		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5037,38		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C5039,40		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5042		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C5043		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C5044,45		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C5046		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C5047		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C5048		ECUM1H472ZFN	C.CAPACITOR CH 50V 4700P	1	
C5056,57		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5058		VCYE1C104MR1	S.CAPACITOR 16V 0.1U	1	
C5059		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C5060		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C5061		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C5062		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5063		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C5066		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
D5001,02		MA151K	DIODE	2	<R>
D5004		MA151K	DIODE	1	<R>
IC5001		AN3334K	IC	1	<R>
IC5002		BA7740FS	IC	1	<R>
IC5003		AN3370K	IC	1	<R>
L5001-04		VLQ0460	COIL	4	
L5007		VLQ0460	COIL	1	
L5008		VLQ0188J5R6	COIL 5.6UH	1	
P5001		VJP1251T	CONNECTOR (MALE) 11P	1	
P5002		VJS2603	CONNECTOR (FEMALE) 12P	1	
P5003		VJP1251T	CONNECTOR (MALE) 11P	1	
Q5001		MSB709-R	TRANSISTOR	1	<R>
Q5002		MSC2295-B	TRANSISTOR	1	<R>
Q5003		XN4504	TRANSISTOR	1	<R>
Q5004,05		MSC2295-B	TRANSISTOR	2	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR5001		MRN1404	TRANSISTOR	1	<R>
			RESISTORS		
R5001		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R5002		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R5003		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5004		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R5005		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5006		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5007		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R5009		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R5010		ERJ6GEYK1R0	M.RESISTOR CH 1/10W 1	1	
R5011-14		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	4	
R5015-18		ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	4	
R5019		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R5020,21		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R5022		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5026		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5027		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R5028		ERJ6GEYG243	M.RESISTOR CH 1/10W 24K	1	
R5029		ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R5030		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R5031		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5032		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R5033		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R5034		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R5036		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R5037,38		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R5039		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R5040		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R5041		ERJ6GEYJ180	M.RESISTOR CH 1/10W 18	1	
R5042,43		ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	2	
R5044,45		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R5046,47		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5056		VRE0034E182	M.RESISTOR CH 1/10W 1.8K	1	
R5057		VRE0034E332	M.RESISTOR CH 1/10W 3.3K	1	
R5058		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5059		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
VR5001,02		EVN32CA00B23	V.RESISTOR 2K	2	
			MISCELLANEOUS		
E49		VSC3119	SHIELD (MAIN)	1	
E50		VSC3039	SHIELD (TOP)	1	
E51		VSC3040	SHIELD (BOTTOM)	1	
E52		VJF0215	BAIND	1	
	■	VEP06749F	P.C.BOARD W/COMPONENT		
			FRONT		
			CAPACITORS		
C6201		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C6202		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C6203		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C6204		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C6205		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C6206		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C6207		ECEA0JU102	E.CAPACITOR 6.3V 1000U	1	
C6208		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6209		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C6210		ECEA1HKS220	E.CAPACITOR 50V 22U	1	
C6211		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6212		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6213,14		ECEA0JKS101	E.CAPACITOR 6.3V 100U	2	
C6215		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6216		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6217		ECEA1HKS220	E.CAPACITOR 50V 22U	1	
D6201-05		LN440YCPUVT	DIODE	5	<R>
D6206		MA151K	DIODE	1	<R>
D6207,08		LN31GCPHLG4	DIODE	2	<R>
D6209,10		LN440YCPUVT	DIODE	2	<R>
D6211		LN840RCP	DIODE	1	<R>
D6212-32		MA151K	DIODE	21	<R>
D6234,35		MA151K	DIODE	2	<R>
D6236,37		MA165VT	DIODE	2	<R>
D6238		MA4051-L	DIODE	1	<R>
D6239-41		MA151K	DIODE	3	<R>
D6242		MA165VT	DIODE	1	<R>
D6244		LN440YCPUVT	DIODE	1	<R>
D6245-47		MA151K	DIODE	3	<R>
D6248		MA700A	DIODE	1	<R>
D6249		MA4300M	DIODE	1	<R>
DP6201		VSL0254	DISPLAY TUBE	1	
IC6201		MN15283VSTL3	IC	1	<R>
IC6202		MN1220	IC	1	<R>
IC6203		MN1280R	IC	1	<R>
IC6204		MN1280L	IC	1	<R>
IC6205		AN78M05F	IC	1	<R>
L6201		VLQEL05K101J	COIL 100UH	1	
P6201-04		VJP3152	CONNECTOR (MALE) 10P	4	
P6205		VJP1237T	CONNECTOR (MALE) 10P	1	
P6206		VJP1231T	CONNECTOR (MALE) 4P	1	
P6207		VJP1236T	CONNECTOR(MALE) 9P	1	
P6208		VJP1247T	CONNECTOR(MALE) 7P	1	
P6209		VJP1394T	CONNECTOR(MALE) 13P	1	
Q6201-04		2SB643	TRANSISTOR	4	<R>
Q6205-09		2SD636	TRANSISTOR	5	<R>
Q6210		2SB642	TRANSISTOR	1	<R>
QR6201-05		MRN1404	TRANSISTOR	5	<R>
QR6206		UN1112	TRANSISTOR-RESISTOR	1	<R>
QR6207		MRN1404	TRANSISTOR	1	<R>
			RESISTORS		
R6201-05		ERDS2TJ470	C.RESISTOR 1/4W 47	5	
R6206		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6207-11		ERDS2TJ470	C.RESISTOR 1/4W 47	5	
R6212-15		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R6216-19		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	4	
R6220-23		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R6224		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R6225		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6226-33		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	8	
R6234		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R6235		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6236		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6237		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R6238		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R6239		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6240,41		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R6242		ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R6243		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R6245		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6246		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R6247,48		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R6249		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6250		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6251		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
RA6201-04		EXBF5E103J	COMBI.R-R 10K	4	
RA6205		EXBF5E473J	RESISTOR-RESISTOR	1	
SW6201-17		EVQQJ104K	SWITCH	17	<R>
SW6219		VSS0324	SWITCH	1	<R>
SW6220		VSS0225	SWITCH	1	<R>
SW6221		VSS0152	SWITCH	1	<R>
SW6222		VSS0225	SWITCH	1	<R>
SW6223		VSS0324	SWITCH	1	<R>
SW6224,25		VSS0225	SWITCH	2	<R>
SW6227		VSS0225	SWITCH	1	<R>
X6201		VSX0094	CRYSTAL OSCILLATOR	1	<R>
X6202		VSX0140	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E48		VMX2062	LED SPACER	2	
E53		VJF0960	DISPLAY TUBE HOLDER	1	
	■	VEP04328A	P.C.BOARD W/COMPONENT		
			AUDIO METER		
D4201-06		LN440YCPUVT1	DIODE	6	<R>
D4207,08		MA165VT	DIODE	2	<R>
P4201		VJP1393T	CONNECTOR(MALE) 13P	1	
			RESISTORS		
R4201,02		ERDS2TJ151	C.RESISTOR 1/4W 150	2	
R4203		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R4204		ERDS2TJ272	C.RESISTOR 1/4W 2.7K	1	
R4205		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R4206		ERDS2TJ272	C.RESISTOR 1/4W 2.7K	1	
R4207,08		EROS2CKG5100	M.RESISTOR 1/4W 510	2	
R4209,10		ERDS2TJ151	C.RESISTOR 1/4W 150	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR4201-04		EVJ9MA040B14	V.RESISTOR 10K	4	
			MISCELLANEOUS		
E54		VMP3282	METER ANGLE	1	
E55		VGF0245	AUDIO METER HOLDER	2	
E56		VSE0117	CH1 METER	1	
E57		VSE0115	CH2 METER	1	
	■	VEP04342A	P.C.BOARD W/COMPONENT		
			FRONT JACK		
			CAPACITORS		
C4901,02		ECKF1H101KB	C.CAPACITOR 50V 100P	2	
C4904		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
J4901		VJJ0094	JACK	1	
L4901,02		VLQEL05S101J	COIL 100UH	2	
P4901		VJP1231T	CONNECTOR(MALE) 4P	1	
P4902		VJP1234T	CONNECTOR(MALE) 7P	1	
			RESISTORS		
R4901		ERDS2TJ563	C.RESISTOR 1/4W 56K	1	
R4902		ERDS2TJ393	C.RESISTOR 1/4W 39K	1	
R4903		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
VR4901		EWKH1A015B23	V.RESISTOR 2K	1	
VR4902,03		EWHH1A091B15	V.RESISTOR 100K	2	
VR4904		EWHH1A091B24	V.RESISTOR 20K	1	
			MISCELLANEOUS		
E59		VMP3223	FRONT JACK ANGLE	1	
E60		VGU5605	VR KNOB	2	
E61		VGU5635	VR KNOB	2	
	■	VEP04343A	P.C.BOARD W/COMPONENT		
			MIC JACK		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CAPACITORS		
C4301		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4302		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4303-05		ECEA1CKA470	E.CAPACITOR 16V 47U	3	
C4306		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4307		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4308		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
FL4301,02		VLF0523	FILTER	2	
IC4301		NJM2068MD	IC	1	<R>
J4301,02		VJJ0078	JACK	2	
P4301		VJP1234T	CONNECTOR(MALE) 7P	1	
Q4301		MSD602-R	TRANSISTOR	1	<R>
			RESISTORS		
R4301,02		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	2	
R4303		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4304		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R4305		ERJ6GEYJ753	M.RESISTOR CH 1/10W 75K	1	
R4306		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4307,08		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	2	
R4309		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R4310		ERJ6GEYJ753	M.RESISTOR CH 1/10W 75K	1	
R4311,12		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R4314,15		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4316		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
			MISCELLANEOUS		
E62		VSC3429	SHIEL CASE	1	
E63		VMP3224	MIC JACK ANGLE	1	
	■	VEP00S01A	P.C.BOARD W/COMPONENT		
			MOTHER		
P931-34		VJS2898A064	CONNECTOR (FEMALE) 64P	4	
P935		VJP1230T	CONNECTOR (MALE) 3P	1	
P941,42		VJS2898A064	CONNECTOR (FEMALE) 64P	2	
P961-63		VJS2123	CONNECTOR (FEMALE) 18P	3	
P964		VJP1242T	CONNECTOR (MALE) 2P	1	
P971		VJS3152	CONNECTOR (FEMALE) 10P	1	
P972		VJP1244T	CONNECTOR (MALE) 4P	1	
P973-75		VJS3152	CONNECTOR (FEMALE) 10P	3	
P976		VJP1251T	CONNECTOR (MALE) 11P	1	
P991-93		VJS3152	CONNECTOR (FEMALE) 10P	3	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			MISCELLANEOUS		
E64		VMP3217	MOTHER ANGLE (REAR)	1	
E65		VMP3218	MOTHER ANGLE (FRONT)	1	
E66		VMX0985	SPACER	1	
E67		XTV26+8F	SCREW	17	
E68		VWJ18SW100LL	FLEXIBLE WIRE	3	
	■	VEP01502A	P.C.BOARD W/COMPONENT		
			SW POWER SUPPLY		
			CAPACITORS		
C1007		ECOS2GG181N	E.CAPACITOR 400V 180U	1	
C1008		VCK0042	C.CAPACITOR	1	
C1009		ECEA2GG010	E.CAPACITOR 400V 1U	1	
C1010		ECQE6473MZ	P.CAPACITOR 630V 0.047U	1	
C1011		ECKD3D331KBN	C.CAPACITOR 3KV 1000P	1	
C1012		ECQB1H223JZ	P.CAPACITOR 50V 0.022U	1	
C1013		ECQB1H472JH	P.CAPACITOR 50V 4700P	1	
C1014		ECQV1H824JZ	P.CAPACITOR 50V 0.82U	1	
C1015		ECA1CXLV470	E.CAPACITOR 16V 47U	1	
C1016		ECA1VFQ391	E.CAPACITOR 35V 390U	1	
C1017		ECEA1VGE331	E.CAPACITOR 35V 330U	1	
C1018		ECA1EFZ561	E.CAPACITOR 25V 560U	1	
C1019		ECEA1DPS122	E.CAPACITOR 0.5V 1200U	1	
C1020		ECA1EFZ102	E.CAPACITOR 25V 1000U	1	
C1022		ECEA2AFE220	E.CAPACITOR 100V 22U	1	
C1023		ECEA1HGE101	E.CAPACITOR 50V 100U	1	
C1024		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1025-27		ECQB1H103JH	P.CAPACITOR 50V 0.01U	3	
C1028		ECEA1HNX100	E.CAPACITOR 50V 10U	1	
C1029		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1030,31		ECEA1AGE101	E.CAPACITOR 10V 100U	2	
C1032		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1035,36		ECCF1H101JC	C.CAPACITOR 50V 100P	2	
C1037		ECQB1H153JZ	P.CAPACITOR 50V 0.015U	1	
C1038		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1045		VCK0042	C.CAPACITOR	1	
C1046		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
D1002-05		RM2B	DIODE	4	<R>
D1006		VSD0002	DIODE	1	<R>
D1007		AP01C	DIODE	1	<R>
D1009		MA178	DIODE	1	<R>
D1010,11		FMLG12SP	DIODE	2	<R>
D1012		MA2200B	DIODE	1	<R>
D1013		FML12SP	DIODE	1	<R>
D1015,16		VSD0001	DIODE	2	<R>
D1017		AK04	DIODE	1	<R>
D1018,19		MA178	DIODE	2	<R>
D1020		MA4030L	DIODE	1	<R>
D1021		MA165VT	DIODE	1	<R>
IC1001		STRD6009E	IC	1	<R>
IC1002		SE013E	IC	1	<R>
IC1003		STK5382	IC	1	<R>
L1002,03		VLQ0354	COIL	2	
L1004		ELC07D220	COIL 22U	1	
L1005		VLQ0354	COIL	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P1002		VJP1930T	CONNECTOR(MALE) 15P	+	
P1003		VJP1243T	CONNECTOR(MALE) 3P	1	
Q1001		PC111A	PHOTO COUPLER	1	<R>
Q1002		2SD639	TRANSISTOR	1	(R,S)<R>
			RESISTORS		
R1002,03		ERDS2TJ683	C.RESISTOR 1/4W 68K	2	
R1004,05		ERDS2TJ474	C.RESISTOR 1/4W 470K	2	
R1006		ERG2ANJ683U	M.RESISTOR 2W 68K	1	
R1007		ERG2SJ560	M.RESISTOR 2W 56	1	
R1009		EROS2CKG2000	M.RESISTOR 1/4W 200	1	
R1010		ERD2FCG102	C.RESISTOR 2W 1K	1	
R1011		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R1012		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1013		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1014		ERG12ANJ182	M.RESISTOR 1/2W 1800	1	
R1016		ERQ12HJ180	F.RESISTOR 1/2W 18	1	
R1018		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1019		ERDS2TJ681	C.RESISTOR 1/4W 680	1	
R1020		ERG2SJ220U	M.RESISTOR 2W 22	1	
R1021		ERF5AK1R8	F.RESISTOR 5W 1.8	1	
T1001		VLT0651	TRANSFORMER	1	
	■	VEP01503A	P.C.BOARD W/COMPONENT		
			POWER SUPPLY SUB		
			CAPACITORS		
C1001		VCK0045	C.CAPACITOR 250V 1500P	1	
C1002		ECQU2A224MN	P.CAPACITOR 250V 0.22U	1	
C1003-05		VCK0045	C.CAPACITOR 250V 1500P	3	
C1006		ECQU2A224MN	P.CAPACITOR 250V 0.22U	1	
D1001		SNR-300K4	SURGE ABSORBER	1	<R>
F1001		XBA2C25TB0	FUSE	1	
L1001		ELF18D616	COIL	1	
P1001		VJP2639	CONNECTOR (MALE)	1	
			MISCELLANEOUS		
E69		VMZ1305	CAPACITOR COVER (L)	2	
E70		VJF0318	FUSE HOLDER	2	
E71		VMZ0429	FUSE COVER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
E72		VMZ0965	CAPACITOR COVER (S)	4	
	■	VEP01478B	P.C.BOARD W/COMPONENT		
			POWER CONNECTOR		
			CAPACITORS		
C1101,02		ECQU2A224MN	P.CAPACITOR 250V 0.22U	2	
L1101		ELF18D618F	COIL	1	
P1101		VJP2638	CONNECTOR (MALE) 4P	1	
P1102		VJS2985	CONNECTOR (FEMALE) 3P	1	
			RESISTORS		
R1101		ERC12GM334	S.RESISTOR 1/2W 330K	1	
			MISCELLANEOUS		
E73		VMZ1305	CAPACITOR COVER (L)	2	
	■	VEP01471B	P.C.BOARD W/COMPONENT		
			POWER DETECTION		
			CAPACITORS		
C1201		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C1202		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C1203		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C1204		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1205		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1206		ECEA1EGE470	E.CAPACITOR 25V 47U	1	
C1207		ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	1	
C1208		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1209		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C1210		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1213		ECEA1CGE102	E.CAPACITOR 16V 1000U	1	
C1214		ECEA0JGE331	E.CAPACITOR 6.3V 330U	1	
C1215		ECEA1CGE221	E.CAPACITOR 16V 220U	1	
C1216		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
D1201,02		MA151WA	DIODE	2	<R>
D1204		MA151K	DIODE	1	<R>
D1205		MA151WK	DIODE	1	<R>
D1206		MA151K	DIODE	1	<R>
D1207		MA4047-M	DIODE	1	<R>
D1208,09		MA151K	DIODE	2	<R>
D1210		MA4056M	DIODE	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D1211,12		MA165VT	DIODE	2	<R>
D1214		FMB-G14L	DIODE	1	<R>
D1217		MA151K	DIODE	1	<R>
D1218		11EQS04	DIODE	1	<R>
IC1201		STR90120	IC	1	<R>
IC1202		LM393PS	IC	1	
IC1203		SI3050C	IC	1	<R>
P1201		VJP1932T	CONNECTOR(MALE) 15P	1	
P1202		VJP1230T	CONNECTOR(MALE) 3P	1	
P1203		VJP1239T	CONNECTOR(MALE) 12P	1	
P1204		VJP1932T	CONNECTOR(MALE) 15P	1	
P1206		VJP1231T	CONNECTOR(MALE) 4P	1	
Q1201		MSD601-R	TRANSISTOR	1	<R>
Q1202		8P2M	TRANSISTOR	1	<R>
Q1203		MSD601-R	TRANSISTOR	1	<R>
QR1202		MRN1404	TRANSISTOR	1	<R>
QR1203		MRN1403	TRANSISTOR	1	<R>
QR1204		UN2224	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R1202		ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R1203		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R1204		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R1205		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R1206		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R1207		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R1208		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R1210		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R1211		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R1212		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R1213		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R1214		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R1215		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R1216		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R1218		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
			MISCELLANEOUS		
E74		VMX0985	SPACER	1	
E75		VSC3076	HEAT SINK	1	
E77		XTV3+8F	SCREW	2	
E78		VSC3447	HEAT SINK	1	
E79		VMZ1352	HEAT SINK COVER	1	
	■	VEP04344C	P.C.BOARD W/COMPONENT		
			REAR JACK		
J6901		VJS3155	CONNECTOR (FEMALE)	1	
J6902		VJS3154	CONNECTOR (FEMALE)	1	
J6904		VJS3155	CONNECTOR (FEMALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
J6905,06		VJS3154	CONNECTOR (FEMALE)	2	
J6907,08		VJJ0324	JACK	2	
J6909,10		VJJ0323	JACK	2	
J6912		VJJ0322	JACK	1	
P6901-03		VJP3152	CONNECTOR (MALE) 10P	3	
			RESISTORS		
R6901-03		ERDS2TJ750	C.RESISTOR 1/4W 75	3	
	■	VEP06538C	P.C.BOARD W/COMPONENT		
			34P		
			CAPACITORS		
C6601,02		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	2	
C6603		ECKF1H391KB	C.CAPACITOR 50V 390P	1	
C6604		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C6605		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C6606		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C6607		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C6608		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6609		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6610		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6611		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6612		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C6613		ECQB1H332JZ	P.CAPACITOR 50V 3300P	1	
CA6601		EXFP8102ZW	COMBI.R-R 1K	1	
CA6602		VCR0329103MB	IC	1	
CA6603		EXFP8102ZW	COMBI.R-R 1K	1	
IC6601		MN15362VMP	IC	1	<R>
IC6602		MN1280R	IC	1	<R>
IC6603		AN90B22	IC	1	<R>
L6601		VLQEL05F101K	COIL 100UH	1	
P6601		VJP1250T	CONNECTOR(MALE) 10P	1	
P6602		VJS1327	CONNECTOR(FEMALE) 34P	1	
Q6601-03		2SD636-R	TRANSISTOR	3	(Q,R)<R>
QR6609		UN1211	TRANSISTOR-RESISTOR	1	<R>
			RESISTORS		
R6601		ERQ12AJ3R9P	F.RESISTOR 1/2W 3.9	1	
R6602		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6603		ERDS2TJ153	C.RESISTOR 1/4W 15K	1	
R6604-12		ERDS2TJ103	C.RESISTOR 1/4W 10K	9	
R6613,14		ERDS2TJ153	C.RESISTOR 1/4W 15K	2	
R6615		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R6616		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R6617		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R6618		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6619-24		ERDS2TJ103	C.RESISTOR 1/4W 10K	6	
R6625		ERDS2TJ105	C.RESISTOR 1/4W 1000K	1	
R6626		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R6627-29		ERDS2TJ103	C.RESISTOR 1/4W 10K	3	
RA6601		EXBP86103J	COMBI.R-R 10K	1	
RA6602		EXBP810103J	COMBI.R-R 10K	1	
RA6603		EXBP88272K	COMBI.R-R 2.7K	1	
X6601		EF0FC3584A5	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E80		XTN26+10F	SCREW	2	
E81		XTN3+8JFZ	SCREW	1	
E82		VMX0674	CONNECTOR SPACER	1	
E83		VGH1979	PLATE	1	
E84		VMP2085	ANGLE	1	
E85		VMX1636	SPACER	1	
	■	VEK5556	P.C.BOARD W/COMPONENT		
			SEARCH DIAL UNIT		
P6301		VJP1249T	CONNECTOR 9P	1	
			MISCELLANEOUS		
E87		VSQ0651	JOG/SHUTTLE UNIT	1	<R>
E88		XTV3+6F	SCREW	2	
E89		XTV3+8J	SCREW	3	
E90		XYE3+EF6	SCREW	1	
	■	VEK3578	P.C.BOARD W/COMPONENT		
			PHOTO TR (L) UNIT		
C1501		ECKW1H102KB	C.CAPACITOR 50V 1000P	1	
Q1501		PN150NVS	PHOTO TR	1	<R>
			MISCELLANEOUS		
E91		VMD0645	PHOTO TR HOLDER	1	
	■	VEK4058	P.C.BOARD W/COMPONENT		
			PHOTO TR (R) UNIT		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1502		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
P1508		VJS2165W	CONNECTOR(FEMALE) 6P	1	
Q1502		PN150NVS	PHOTO TR	1	<R>
R1503		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
			MISCELLANEOUS		
E92		VMD0645	HOLDER	1	
	■	VEK2657	P.C.BOARD W/COMPONENT		
			TENSION SENSOR UNIT		
Q1504		ON1301	PHOTO INTERRUPTOR	1	<R>
R1502		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
	■	VEK4265	P.C.BOARD W/COMPONENT		
			REV TENSION SENSOR UNIT		
			MISCELLANEOUS		
E156		VMA7987	REV PHOTO HOLDER	1	
E157		ON1108	PHOTO INTERRUPTOR	1	<R>
E94		XYN26+C5	SCREW	1	
	■	VEK4163	P.C.BOARD W/COMPONENT		
			MOTOR BASE		
P1502		VJP1511T	CONNECTOR(MALE) 11P	1	
P1503		VJP1229G	CONNECTOR(MALE) 2P	1	
P1513		VJP1229T	CONNECTOR(MALE) 2P	1	
P1514		VJP1229R	CONNECTOR(MALE) 2P	1	
P1515		VJP1232T	CONNECTOR(MALE) 5P	1	

Order No. VSD9505S601

⚠WARNING
This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advice non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products deal with in this service manual by anyone else could result in serious injury or death.

Service Manual

Supplement

Video Produc

Subject: Y/C Timing Adjustment Range

Please use this supplement together with the Service Manual as follows:

Model No.	Bulletin No.	Order No.	Effective from
AG-7350-E/B	47	VSD9109M615	E5 - - -
AG-7355-E/B VC0635	31	VSD9110M616	E5 - - -
AG-7150-E/B	47	VSD9109M615	E5 - - -

Board : VIDEO 2

After completion of the Y/C timing adjustment (VR8007), the fine adjustment position of VR8007 drifted.
In order to prevent this symptom, coil L8010 has been added.
If the fine adjustment point of VR8007 drifts in a unit which has L8010, please remove L8010.

Interchangeability Code (I/C)

A	Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.	B	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts possible then stock new parts.
C	New parts only may be used in early or late production sets.	D	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts
E	Other		

Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	I/C	Remarks
L8010	- - - - -	VLQEL05S681J	COIL 680UH	1	E	

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Order No. VSD9508S601

Service Manual

Supplement 2

Video Product

Subject :Expansion of Tracking Meter Level Adjustment Range

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AG-7350-B/E	49	VSD9109M615	H5------
AG-7355-B/E V00635	33	VSD9110M616	H5------

Board: Video 1

To widen the adjustment range of Tracking Meter Level, resistores R3126 and R3111 on the Video ! C.B.A. have been changed as shown below.

Interchangeability Code (I/C)

A	Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
B	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts possible then stock new parts.
C	New parts only may be used in early or late production sets.
D	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E	Others

Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	I/C	Remarks
R3126	ERJ6GEYJ223	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	A	
R3111	ERJ6GEYJ153	ERJ6GEYJ103	M.RESISTOR CH 1/10W 13K	1	A	

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Order No. VSD9504S634

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Service Manual

Supplement

Video Produc

Subject: Change of IC

Please use this supplement together with the Service Manual as follows:

Model No.	Bulletin No.	Order No.	Effective from
AG-6730E	27	VSD9212M628	D5 - - -
AG-7150-E/B	46	VSD9109M615	D5 - - -
AG-7350-E/B	46	VSD9109M615	D5 - - -
AG-7355-E/B	30	VSD9110M616	D5 - - -
AG-5700-E/B	15	VSD9202M619	D5 - - -

The following IC for the video circuit has been changed for durability improvement.

Interchangeability Code (I/C)

A	Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.	B	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts possible then stock new parts.
C	New parts only may be used in early or late production sets.	D	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new part
E	Other		

Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	I/C	Remarks
IC3006	VEFH05BT	VCR0389	IC	1	C	Except AG-5700
IC3002	VEFH05BT	VCR0389	IC	1	C	Only AG-5700

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Order No. VSD9607S203
D1, D4

Service Manual

Supplement

NTSC / PAL Video Product

Subject : Improvement of Bias Oscillation Circuit

Please use this supplement together with the Service Manual as follows :

Model No.	Bulletin No.	Order No.	Effective from
AG-MD830P	19	VSD9403M246	F6----
AG-7350P	61	VSD9106M207	F6----
AG-7355P	35	VSD9110M212	F6----
AG-MD830E/B	14	VSD9408M637	F6----
AG-7350E/B V 11137	52	VSD9109M615	F6----
AG-7355E/B V 08653 ✓	37	VSD9110M616	F6----

Board : AUDIO

Symptom : Audio recording may not be performed correctly due to stopping of the bias oscillator.

Cause : Not enough ripple current.

Remedy : In order to improve this, capacitor (C4071) has been added as shown below.

Interchangeability Code (I/C)

A	Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
B	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts possible then stock new parts.
C	New parts only may be used in early or late production sets.
D	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E	Others

Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	I/C	Remarks
C4071	------	ECEA1CU470	E.CAPACITOR 6.2V 47U	1	C	

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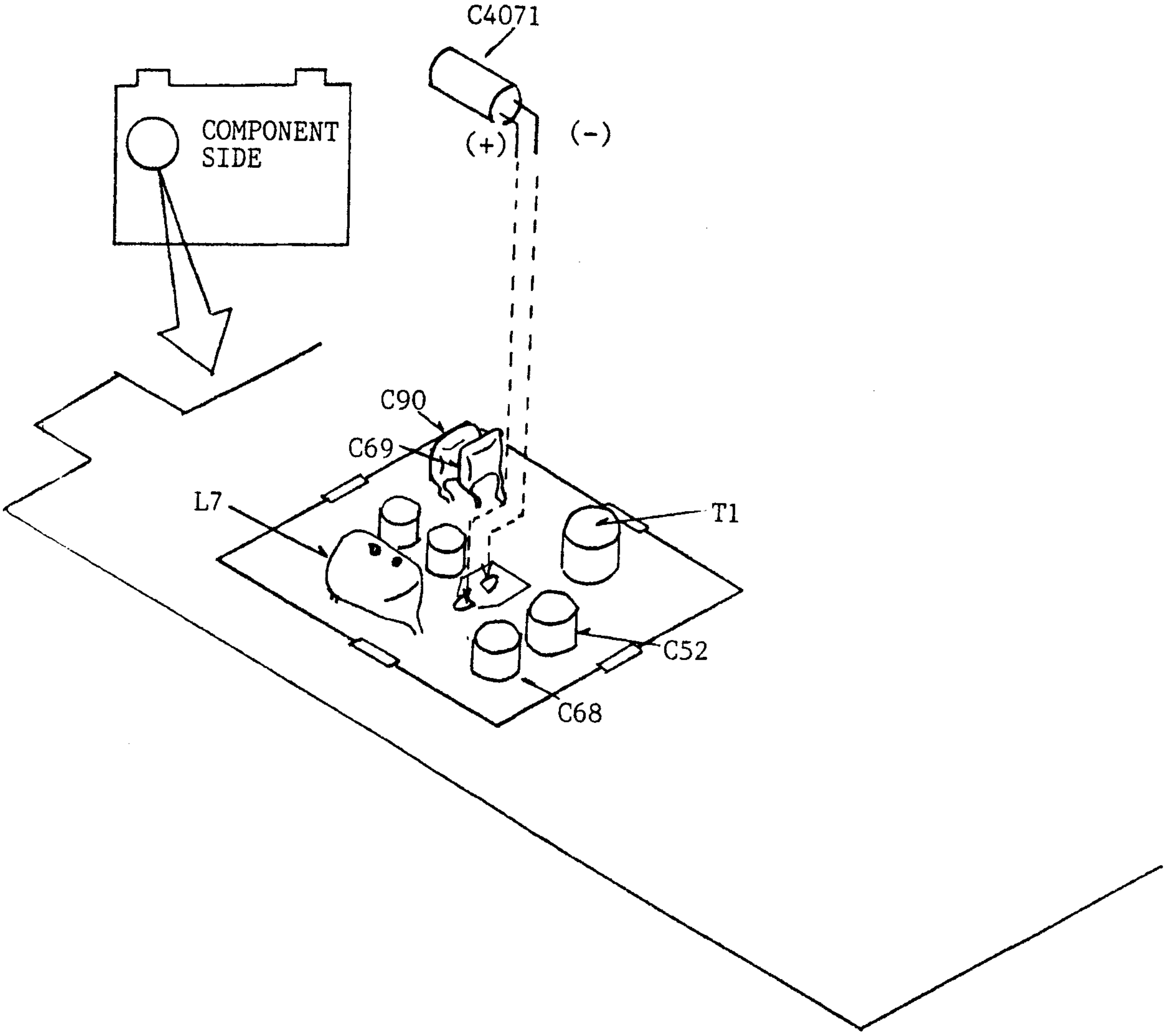
C4071
COMPONENT
SIDE
(+)
(-)
C90
C69
L7
T1
C52
C68

[illegible] V00635

Order No. VSD9302S655

Service Manual

Supplement

Video Product

Subject: Additional of New Features

Please use this supplement together with the Service Manual as follows:

Model No.	Bulletin No.	Order No.	Effective from
AG-7355-E/B	15	VSD9110M616	2T
AG-7350-E/B	28	VSD9109M615	2T
AG-7150-E/B	28	VSD9109M615	2T

The following changes have been made to improve the functions of this VTR.

1. Standby OFF time setting
2. Wide screen
3. Connector panel

The following parts have been changed for above reason.

Interchangeability Code (I/C)

A	Original or new parts may be used in early or late production set. Use original parts until exhausted, then stock new parts.
B	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts possible then stock new parts.
C	New parts only may be used in early or late production sets.
D	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
E	Other

Part Number

Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	I/C	Remarks
E1	VEP06729D	VEP06848C	SERVO & SYSTEM CONTROL C.B.A.	1	E	AG-7350 /AG-7150
E1	VEP06729E	VEP06848D	SERVO & SYSTEM CONTROL C.B.A.	1	E	AG-7355
E3	VEP00R80A	VEP00R80B	SERVO TP C.B.A.	1	E	
E11	VEP06749C	VEP06749J	FRONT C.B.A.	1	E	AG-7350
E11	VEP06749D	VEP06749K	FRONT C.B.A.	1	E	AG-7150
E11	VEP06749F	VEP06749L	FRONT C.B.A.	1	E	AG-7355

Continued on the next page

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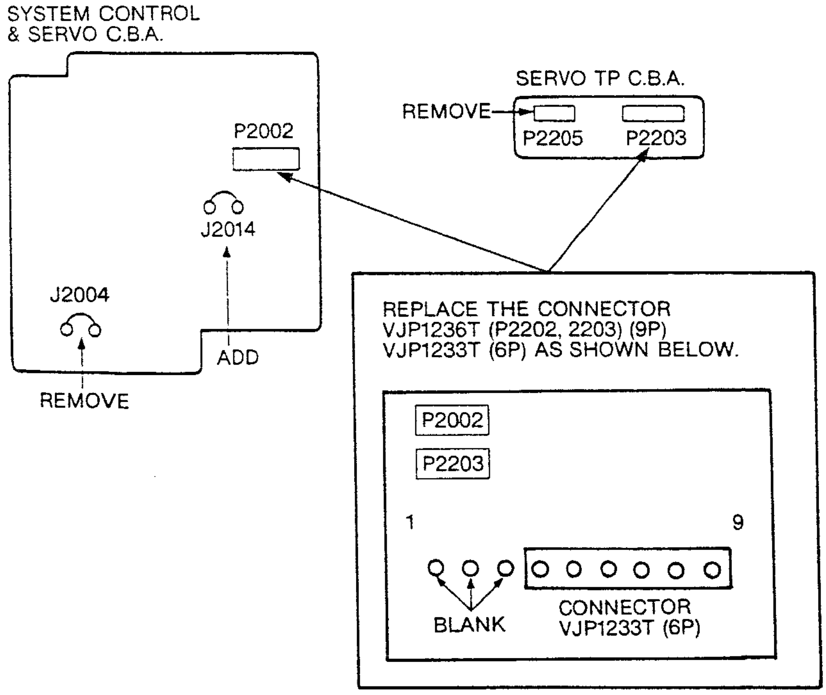
Part Number						
Ref. No.	Original Part No.	New Part No.	Part Name & Descriptions	Pcs	I/C	Remarks
E20	VEP04344A	VEP04344D	REAR JACK C.B.A.	1	E	AG-7350
E20	VEP04344B	VEP04344E	REAR JACK C.B.A.	1	E	AG-7150
E20	VEP04344C	VEP04344F	REAR JACK C.B.A.	1	E	AG-7355
4-18	VGH2859	VGH3081	REAR JACK PLATE	1	E	AG-7350
4-18	VGH2860	VGH3084	REAR JACK PLATE	1	E	AG-7150
4-18	VGH2863	VGH3078	REAR JACK PLATE	1	E	AG-7355
6-1	VPG6203	VPG6548	PACKING CASE	1	E	AG-7350-E
6-1	VPG6204	VPG6549	PACKING CASE	1	E	AG-7350-B
6-1	VPG6205	VPG6553	PACKING CASE	1	E	AG-7150
6-1	VPG6201	VPG6543	PACKING CASE	1	E	AG-7355
6-10	-----	VQC2002	CORRECTIONS SHEET	1	E	

---- NOTE ----

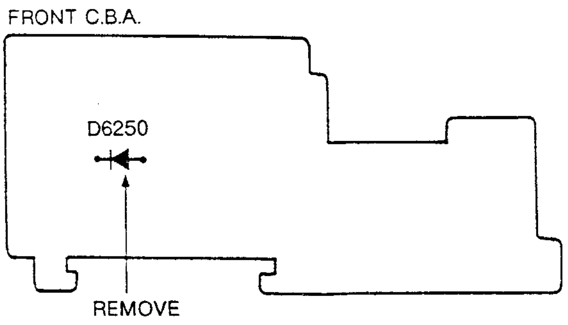
SERVO & SYSTEM CONTROL C.B.A. SERVO TP C.B.A. and FRONT C.B.A. may be used in early production sets only as shown below.

CIRCUIT BOARD	INTERCHANGEABILITY
SERVO & SYSTEM CONTROL	NO
SERVO TP	NO
FRONT	NO
MOTHER	YES
REAR JACK	YES

Please perform the following modification when you use these circuit boards (SERVO & SYSTEM CONTROL, SERVO TP and FRONT) for early production sets.


SYSTEM CONTROL
& SERVO C.B.A.
P2002
J2014
J2004
ADD
REMOVE
SERVO TP C.B.A.
REMOVE
P2205
P2203
P2002
P2203
1
9
BLANK
CONNECTOR
VJP1233T (6P)

REPLACE THE CONNECTOR
VJP1236T (P2202, 2203) (9P)
VJP1233T (6P) AS SHOWN BELOW.


FRONT C.B.A.
D6250
REMOVE

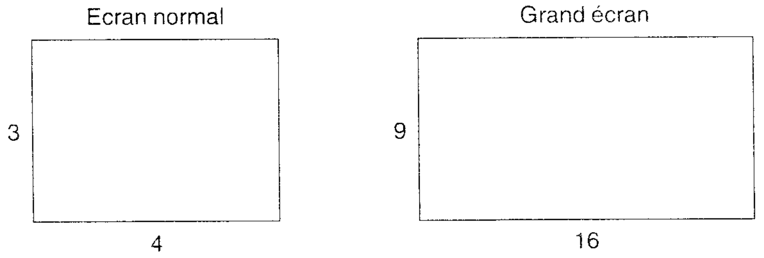
Description of Changes

1. Standby OFF time setting

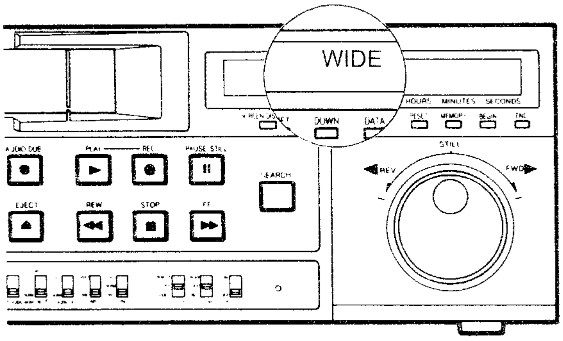
The time between when the tape stops and the upper VIDEO Head stops rotating, is called the standby off time, and it can be set by using ON-Screen operation.

2. Wide screen

Previously, the only aspect ratio available for T.V screens was 4/3. Now however, another aspect ratio, 16/9 wide screen is becoming available.
This VTR can record and playback an aspect ratio identification signal (side data) which will allow a compatible monitor to reproduce a 16/9 aspect ratio picture. This identification signal for wide screen can only be input or output via the S1 video input/output connector. Note that is cant be input or output from the line signal (video connector).


Ecran normal
3
4
Grand écran
9
16

- Pendant l'enregistrement ou la lecture des données grand écran, l'indication "WIDE" s'affiche sur le voyant de fonction.


WIDE
HOURS
MINUTES
SECONDS
DOWN
DATA
RESET
MEMORY
BEGIN
END
AUDIO DUB
PLAY
REC
PAUSE STILL
SEARCH
EJECT
REW
STOP
FF
STILL
REV
FWD

On-screen operation

1. Press the SCREEN DISPLAY and DOWN buttons simultaneously to display the ON-SCREEN screen.

2. Press the SHIFT button.
   Select the STBY OFF TIME or WIDE MODE item.

   *Press the DATA button to change the setting.
   *Press the DOWN button to proceed to the next item.

```
STBY OFF TIME   5MIN
WIDE MODE       AUTO
```

***Setting the standby OFF time**

5 MIN: Normally, use this setting.
The upper video head cylinder will stop rotating approx, 5 minutes after the VTR to return to the playback mode from the stop mode is approx. 1 second.)(factory setting)

0 MIN: The upper video head cylinder will stop rotating as soon as the VTR stops. (The time taken for the VTR to return to the playback mode from the stop mode is approx. 3 seconds).

***Setting the wide data mode**

AUTO: Wide data is recorded and played back automatically. (factory setting)

NOR: The VTR is put forcibly into the normal mode.

WIDE: The VTR is put forcibly into the wide mode.

Note:
*The AG-7150 permits playback but not recording of wide data.

3. Upon completion of operation, press the SCREEN DISPLAY button. The normal screen will reappear.

For details, refer to On-screen Functions On-screen Functions in the instruction manual.

3. Connector panel

The name of the S-VIDEO IN (OUT) Connector on the connector panel at the rear has been changed to the S1 VIDEO IN (OUT) Connector.

3. Wide size 16:9 ratio video

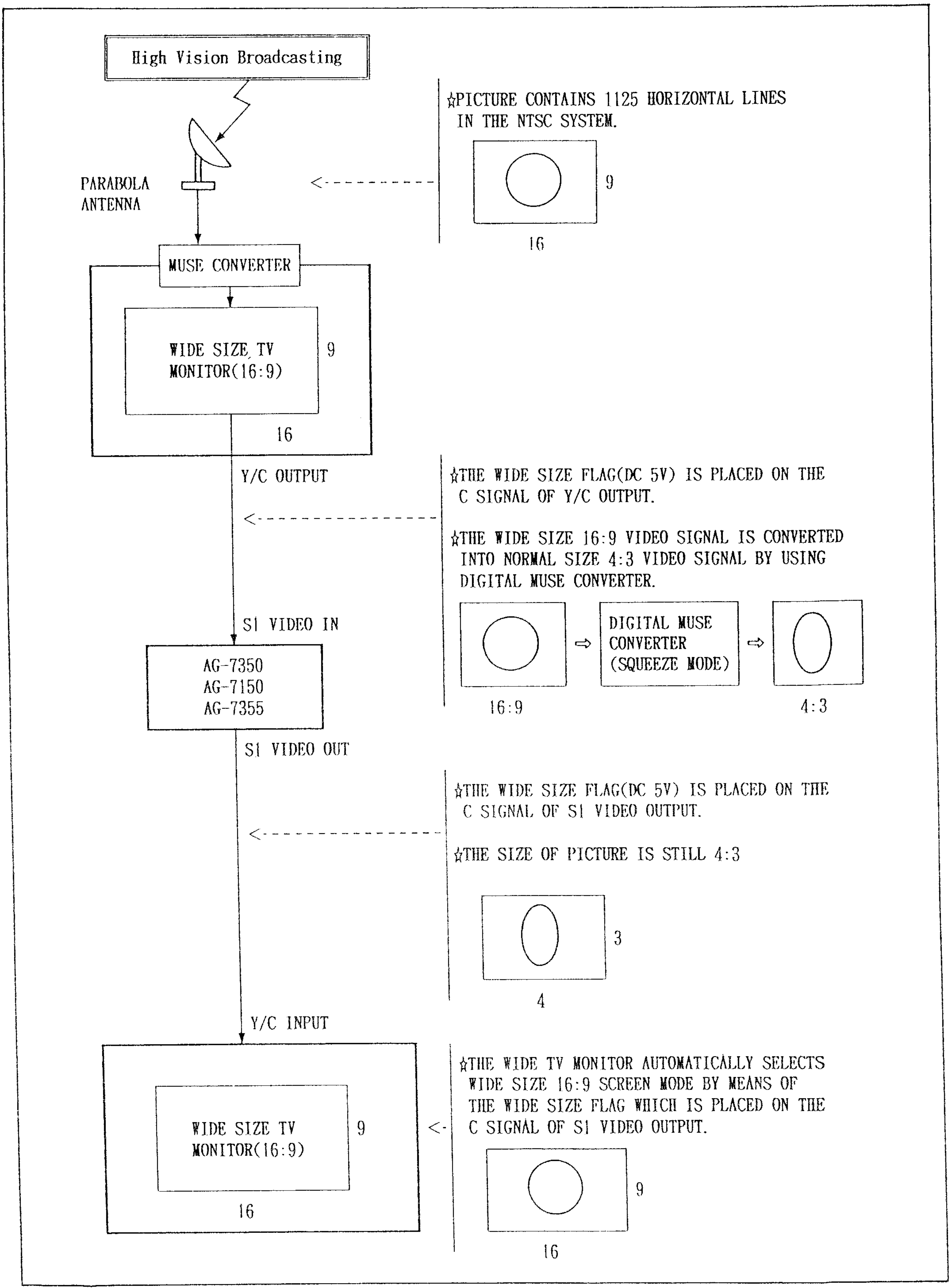
3-1. General

The AG-7350/7150 and AG-7355 are equipped with a 16:9 picture ratio function which will allow them to be used in future High Vision/wide video broadcasting applications. High Vision broadcasting is slowly coming into everyday use. For example, when converting 16:9 video into standard 4:3 video using a digital converter such as the "Muse Converter", the signal will be recorded onto these machines complete with associated wide size information.
Upon playback, the machine feeds the wide size information (superimposed upon the C signal) to a suitable monitor and a "wide flag" signal automatically selects wide mode.
See Figure A.

This video system consists of two main sections, Wide Video Detection and Wide Input/Output Select.

3-2. Wide Size Video Detection

In the MII VTR, wide size video information (the "wide flag") is recorded onto tape to provide wide picture recognition in compatible equipment. The wide flag consists of 5V DC superimposed upon lines 12 and 255 of the Pr signal (PAL) and lines 15 and 277 of the Pr signal (NTSC). When a tape containing this signal is replayed, 5V is superimposed on the C signal (video output S1) and is sent to the TV monitor for auto wide size selection.


High Vision Broadcasting
PARABOLA
ANTENNA
9
16
MUSE CONVERTER
WIDE SIZE TV
MONITOR(16:9)
9
16
Y/C OUTPUT
DIGITAL MUSE
CONVERTER
(SQUEEZE MODE)
16:9
4:3
S1 VIDEO IN
AG-7350
AG-7150
AG-7355
S1 VIDEO OUT
3
4
Y/C INPUT
WIDE SIZE TV
MONITOR(16:9)
9
16
9
16

☆PICTURE CONTAINS 1125 HORIZONTAL LINES IN THE NTSC SYSTEM.

☆THE WIDE SIZE FLAG(DC 5V) IS PLACED ON THE C SIGNAL OF Y/C OUTPUT.

☆THE WIDE SIZE 16:9 VIDEO SIGNAL IS CONVERTED INTO NORMAL SIZE 4:3 VIDEO SIGNAL BY USING DIGITAL MUSE CONVERTER.

☆THE WIDE SIZE FLAG(DC 5V) IS PLACED ON THE C SIGNAL OF S1 VIDEO OUTPUT.

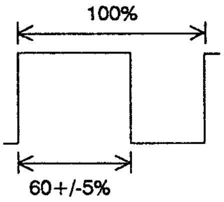
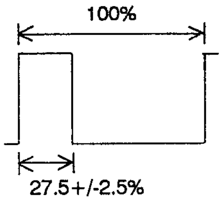
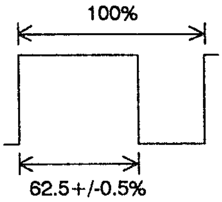
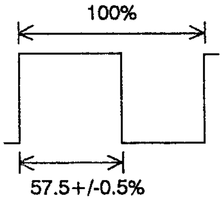
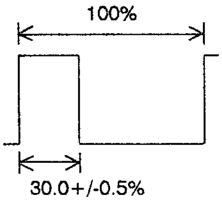
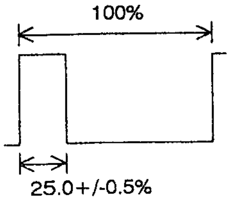
☆THE SIZE OF PICTURE IS STILL 4:3

☆THE WIDE TV MONITOR AUTOMATICALLY SELECTS WIDE SIZE 16:9 SCREEN MODE BY MEANS OF THE WIDE SIZE FLAG WHICH IS PLACED ON THE C SIGNAL OF S1 VIDEO OUTPUT.

Figure A General of Wide Size System

WIDE MODE DETECTION PULSES

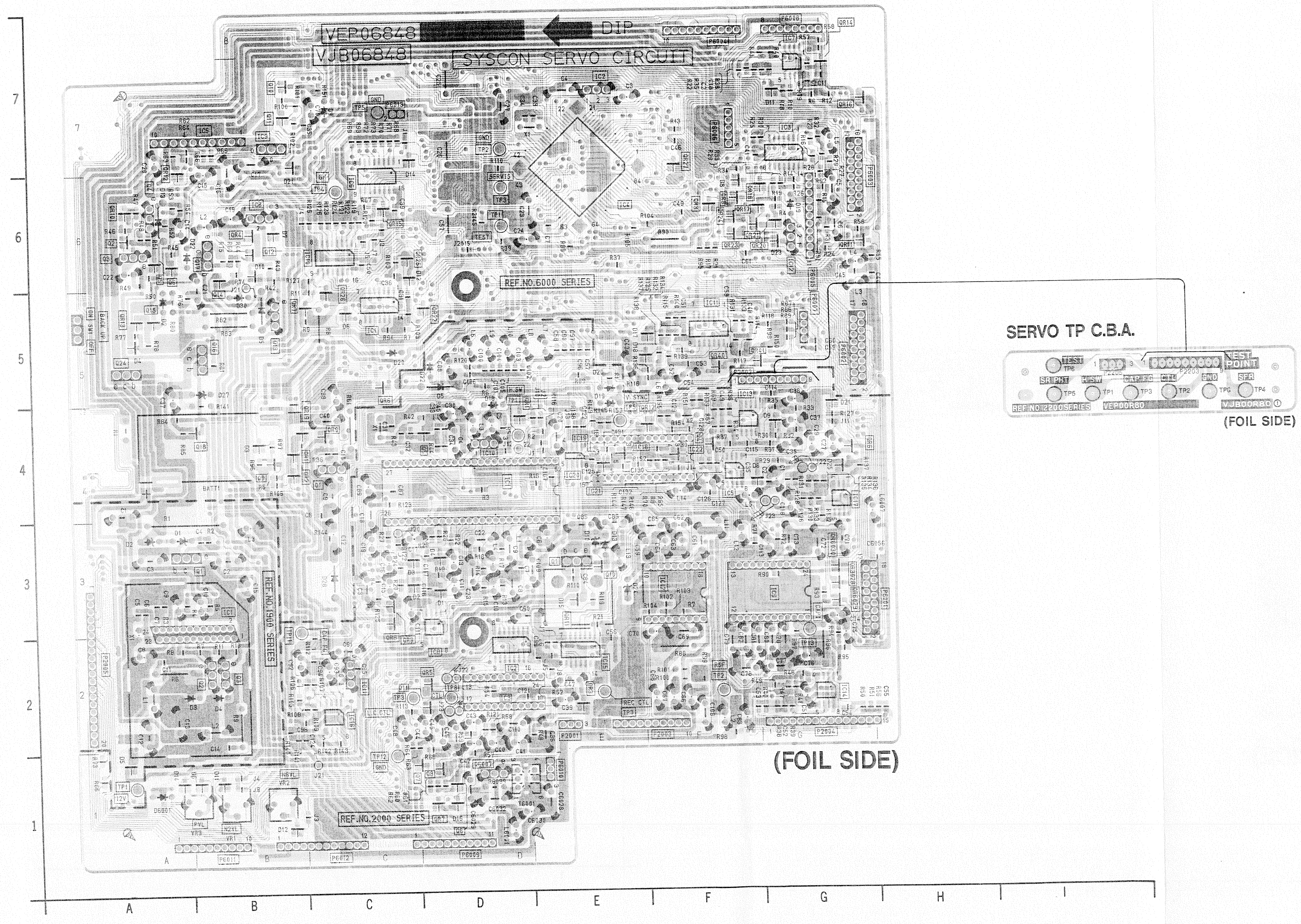
On the video tape, the wide mode detection pulses are recorded on the CTL track by using the CTL pulses.

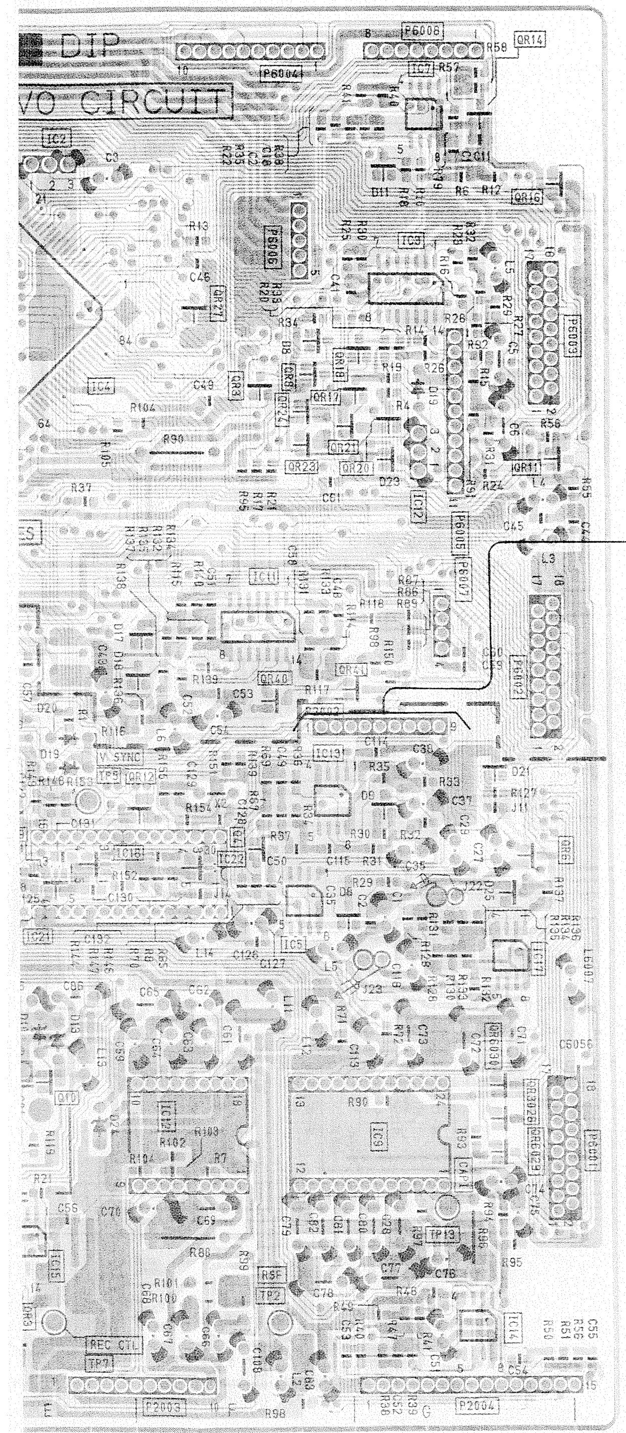
<table>
<tr><th colspan="2">"0" PULSE</th><th colspan="2">"1" PULSE</th></tr>
<tr><td colspan="2">
The "0" pulse is used for the most of AG series VTR.</td><td colspan="2">
The "1" pulse is used in consumer VTRs with the "VISS" and "VASS" signals.</td></tr>
<tr><td>"L" pulse
 </td><td>"S" pulse
 </td><td>"L" pulse
 </td><td>"S" pulse
 </td></tr>
<tr><td colspan="2"><RECORDING>
AG-7350/7355 record the "L" pulse and "S" pulse alternately during the wide mode.</td><td colspan="2"><RECORDING>
These machines record the "L" pulse and "S" pulse alternately during the wide mode.</td></tr>
<tr><td colspan="2"><PLAYBACK>
AG-7350/7150/7355 can detect the duty of CTL "0" pulse as follows;
42.5% <DUTY =< 59.0% : "S"
59.0% <DUTY : "L"</td><td colspan="2"><PLAYBACK>
AG-7350/7150/7355 can detect the duty of CTL "1" pulse as follows;
DUTY =< 59.0% : "S"
26.5% <DUTY =< 42.5% : "L"</td></tr>
<tr><td colspan="4">If the wide format pattern (L, S, L, S, ...) is continued for more than 20 frames (approx. 0.667s), the AG-7350/7150/7355 detects the wide mode.</td></tr>
</table>

In the wide mode, the +5V DC signal is mixed to the chrominance (C) signal of the S-VIDEO signal.

SYSTEM CONTROL & SERVO C.B.A. SERVO TP C.B.A. AG-7355/7350/7150

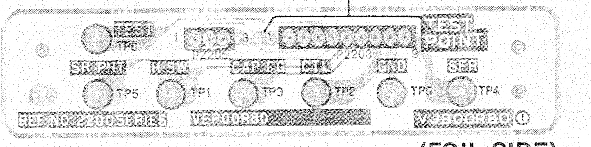
(Page SCM-4)


VEP06848
VJB06848
DIP
SYSCON SERVO CIRCUIT
REF.NO.6000 SERIES
REF.NO.1900 SERIES
REF.NO.2000 SERIES
(FOIL SIDE)
SERVO TP C.B.A.
TEST POINT
SR PHT
H.SW
CAP FG
CTL
GND
SFR
TP6
TP5
TP1
TP3
TP2
TPG
TP4
REF.NO.2200 SERIES
VEP00R80
VJB00R80
(FOIL SIDE)
A
B
C
D
E
F
G
H
I
1
2
3
4
5
6
7


DIP
VO CIRCUIT
E
F
G
H
I

(FOIL SIDE)

SERVO TP C.B.A.


TEST
TP6
P2205
P2203
TEST POINT
SR PHT
H SW
CAP FG
CTL
GND
SFR
TP5
TP1
TP3
TP2
TPG
TP4
REF NO 2200SERIES
VEP00R80
VJB00R80 ①

(FOIL SIDE)

SYSTEM CONTROL & SERVO C.B.A.

Transistor	
Q1901	B-3
Q1902	B-2
Q1903	B-2
Q2001	E-3
Q2004	F-4
Q2005	D-4
Q2006	D-1
Q2007	D-1
Q2008	D-1
Q2010	E-3
Q2011	D-2
Q6001	C-4
Q6002	A-6
Q6003	A-6
Q6004	A-6
Q6005	A-6
Q6006	A-6
Q6007	D-1
Q6009	B-4
Q6010	B-7
Q6011	B-7
Q6012	B-6
Q6013	B-5
Q6014	B-6
Q6015	A-5
Q6016	B-5
Q6017	B-6
Q6018	B-4
Q6024	A-5

Transistor & Resistor	
QR2001	D-4
QR2003	E-2
QR2005	D-2
QR2006	G-4
QR2008	C-3
QR2009	C-3
QR2011	E-3
QR2012	F-4
QR3028	G-3
QR6001	B-4
QR6002	B-4
QR6003	F-6
QR6004	B-6
QR6006	C-5
QR6007	C-5
QR6008	F-6
QR6009	C-4
QR6010	A-6
QR6011	G-6
QR6012	A-7
QR6013	A-5
QR6014	G-7
QR6015	C-6
QR6016	G-7
QR6017	G-6
QR6018	G-6
QR6019	C-4
QR6020	G-6
QR6021	G-6
QR6022	D-5
QR6023	F-6
QR6024	F-6
QR6025	C-6
QR6026	C-5
QR6027	F-7
QR6029	G-3
QR6030	G-3
QR6040	F-5
QR6041	G-5

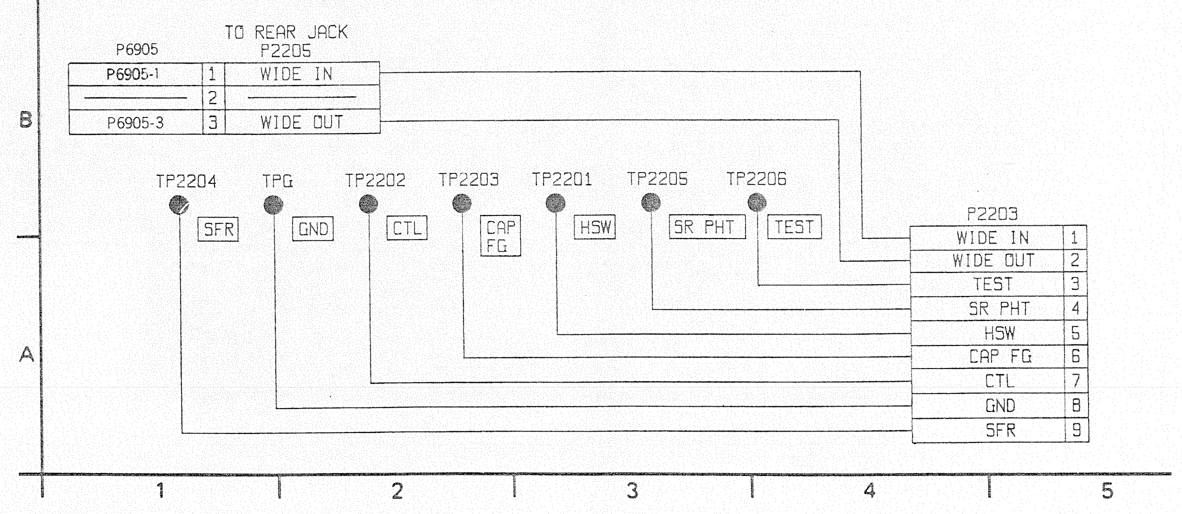
Integrated Circuit	
IC1901	B-3
IC2001	D-4
IC2002	D-2
IC2003	D-2
IC2005	F-4
IC2008	D-3
IC2009	G-3
IC2010	D-4
IC2011	C-2
IC2012	F-3
IC2013	F-4
IC2014	G-2
IC2015	E-2
IC2016	C-2
IC2018	E-4
IC2019	E-4
IC2020	E-4
IC2021	E-4
IC2022	F-4
IC6001	C-5
IC6002	E-7
IC6003	G-7
IC6004	E-6
IC6005	B-7
IC6006	C-6
IC6007	G-7
IC6008	B-6
IC6009	B-7
IC6010	C-6
IC6011	F-5
IC6012	G-6
IC6017	G-4

Test Point	
TP1901	A-1
TP2001	D-4
TP2002	F-2
TP2003	C-2
TP2005	E-4
TP2007	E-2
TP2008	D-2
TP2011	B-3
TP2012	C-1
TP2013	G-2
TP6001	D-6
TP6002	D-7
TP6003	D-6

Adjustment	
VR2001	B-1
VR2002	B-1
VR2003	B-1

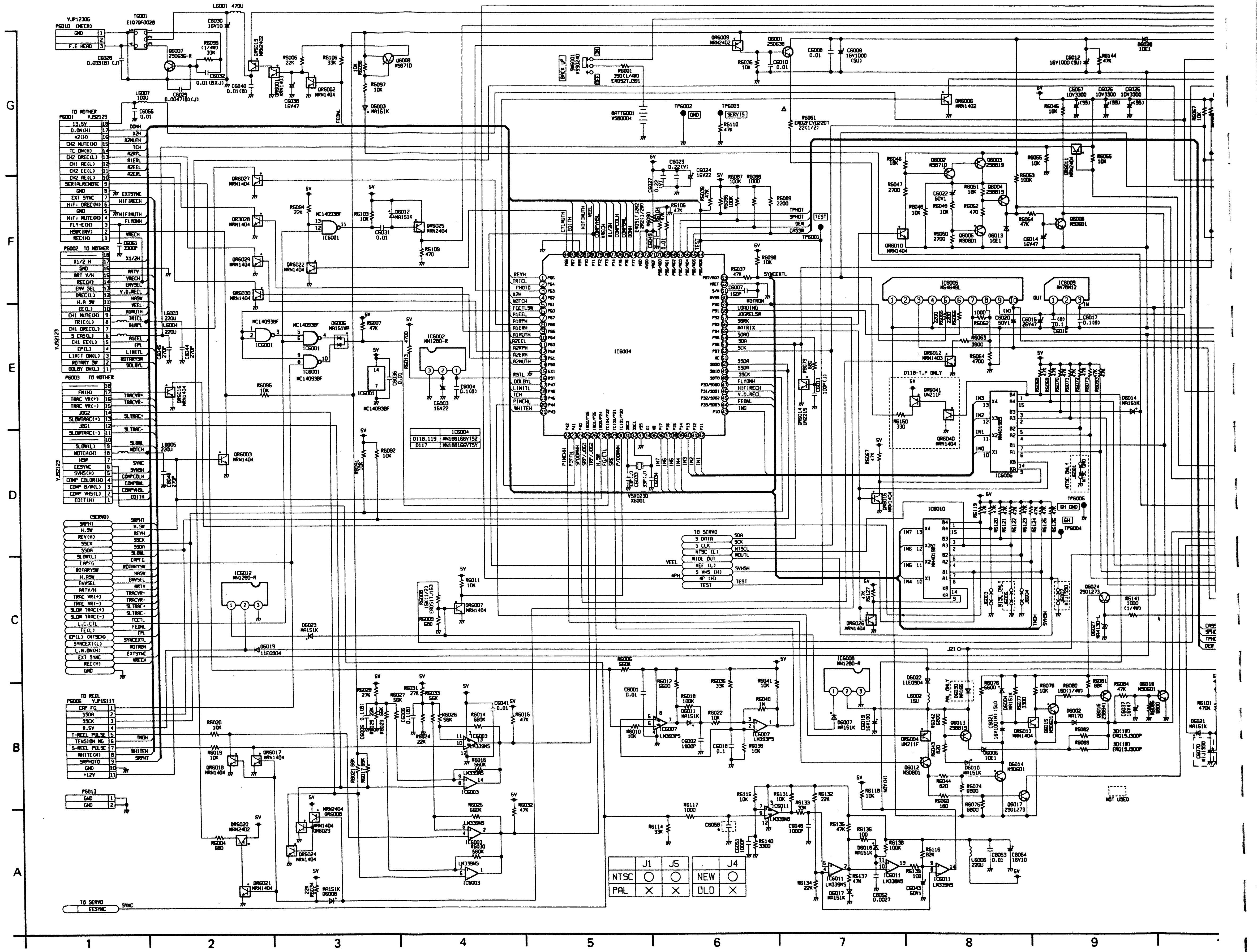
Connector	
P2001	F-2
P2002	G-5
P2003	F-2
P2004	G-2
P2005	A-2
P6001	G-3
P6002	G-5
P6003	G-6
P6004	F-7
P6005	G-6
P6006	F-7
P6007	G-5
P6008	G-7
P6009	D-1
P6010	E-1
P6011	B-1
P6012	C-1
P6013	C-7

SERVO TP SCHEMATIC DIAGRAM


TO REAR JACK
P6905
P2205
P6905-1
1
WIDE IN
2
P6905-3
3
WIDE OUT
TP2204
TPG
TP2202
TP2203
TP2201
TP2205
TP2206
SFR
GND
CTL
CAP FG
HSW
SR PHT
TEST
P2203
WIDE IN 1
WIDE OUT 2
TEST 3
SR PHT 4
HSW 5
CAP FG 6
CTL 7
GND 8
SFR 9
B
A
1
2
3
4
5

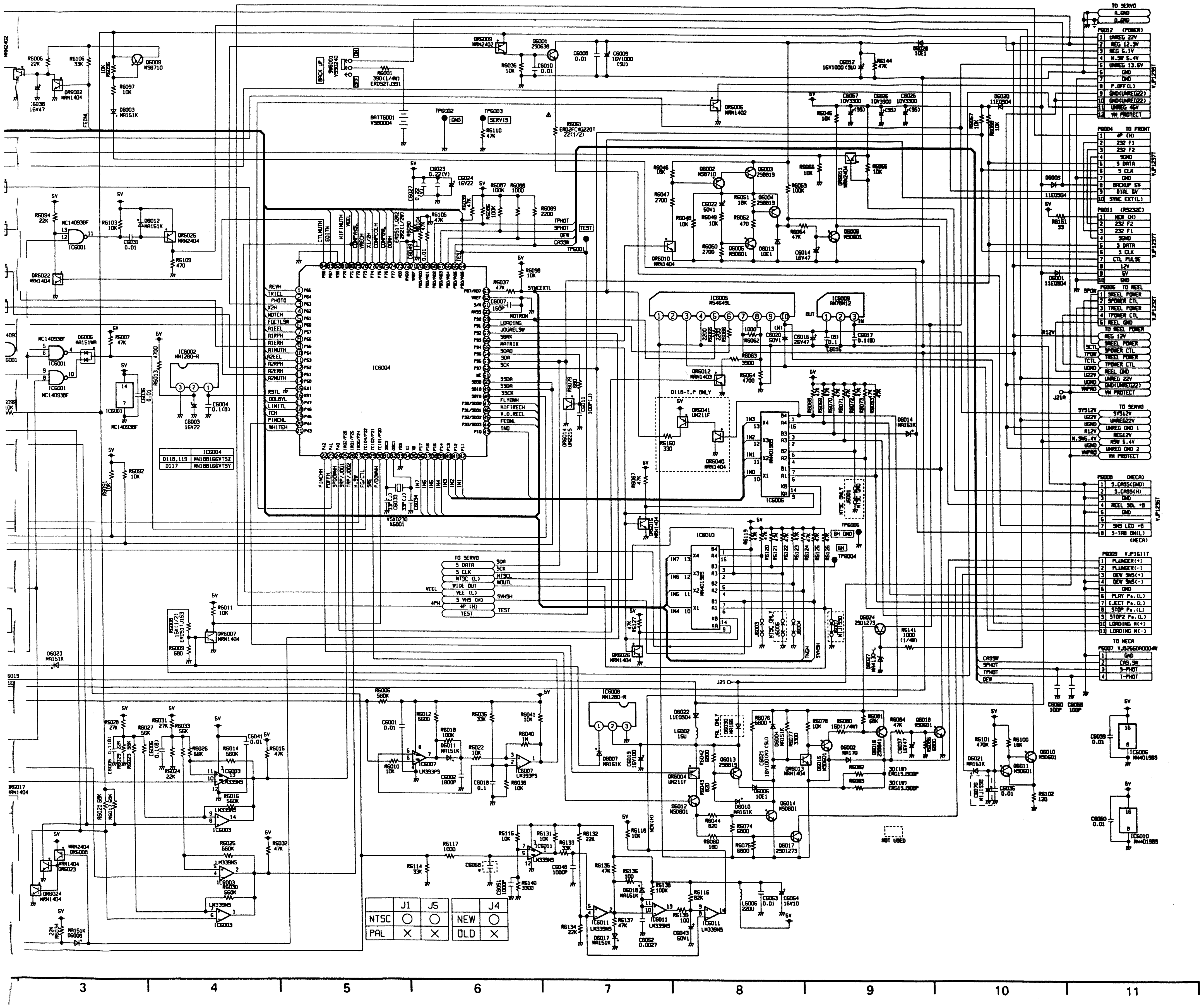
SYSTEM CONTROL SCHEMATIC DIAGRAM AG-7355/7350/7150

(Page SCM-5)



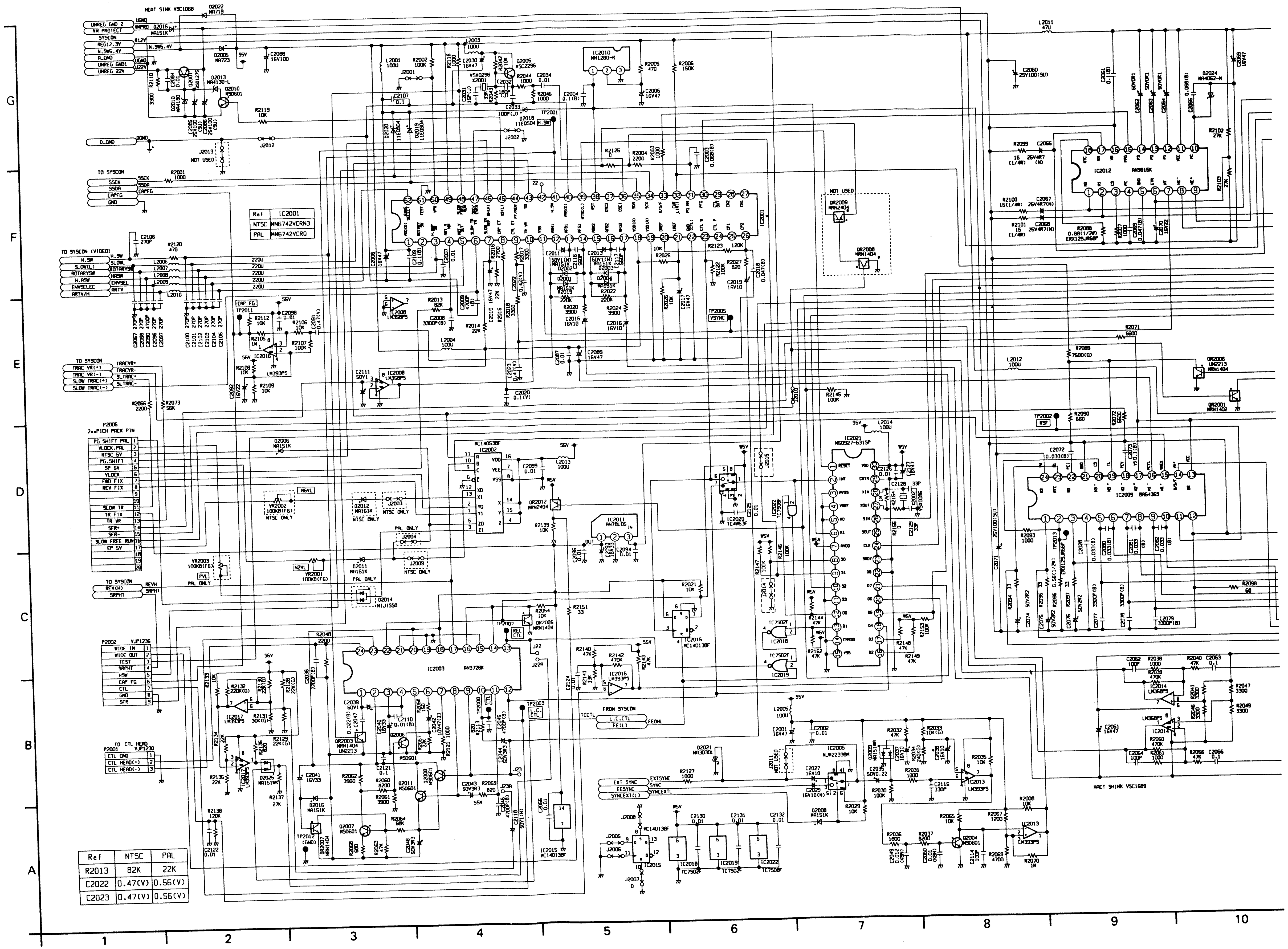
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
IC6004
IC6001
IC6002
IC6003
IC6005
IC6006
IC6007
IC6008
IC6009
IC6010
IC6011
IC6012
TO MOTHER
TO SERVO
TO REEL
TEST
J1
J5
J4
NTSC
PAL
NEW
OLD
NOT USED

EMATIC DIAGRAM AG-7355/7350/7150


IC6004
IC6001 MC14093BF
IC6002 MN1280-R
IC6005 M54645L
IC6009 AN78M12
IC6006
IC6010
IC6003 LM339N5
IC6007 LM393P5
IC6008 MN1280-R
IC6011 LM339N5
BATT6001
TO SERVO
P6012 (POWER)
P6004 TO FRONT
P6011 (RS232C)
P6006 TO REEL
TO REEL POWER
TO SERVO
P6008 (MECA)
P6009
TO MECA
P6007
NOT USED
J1 J5 J4
NTSC ○ ○ NEW ○
PAL × × OLD ×
3
4
5
6
7
8
9
10
11

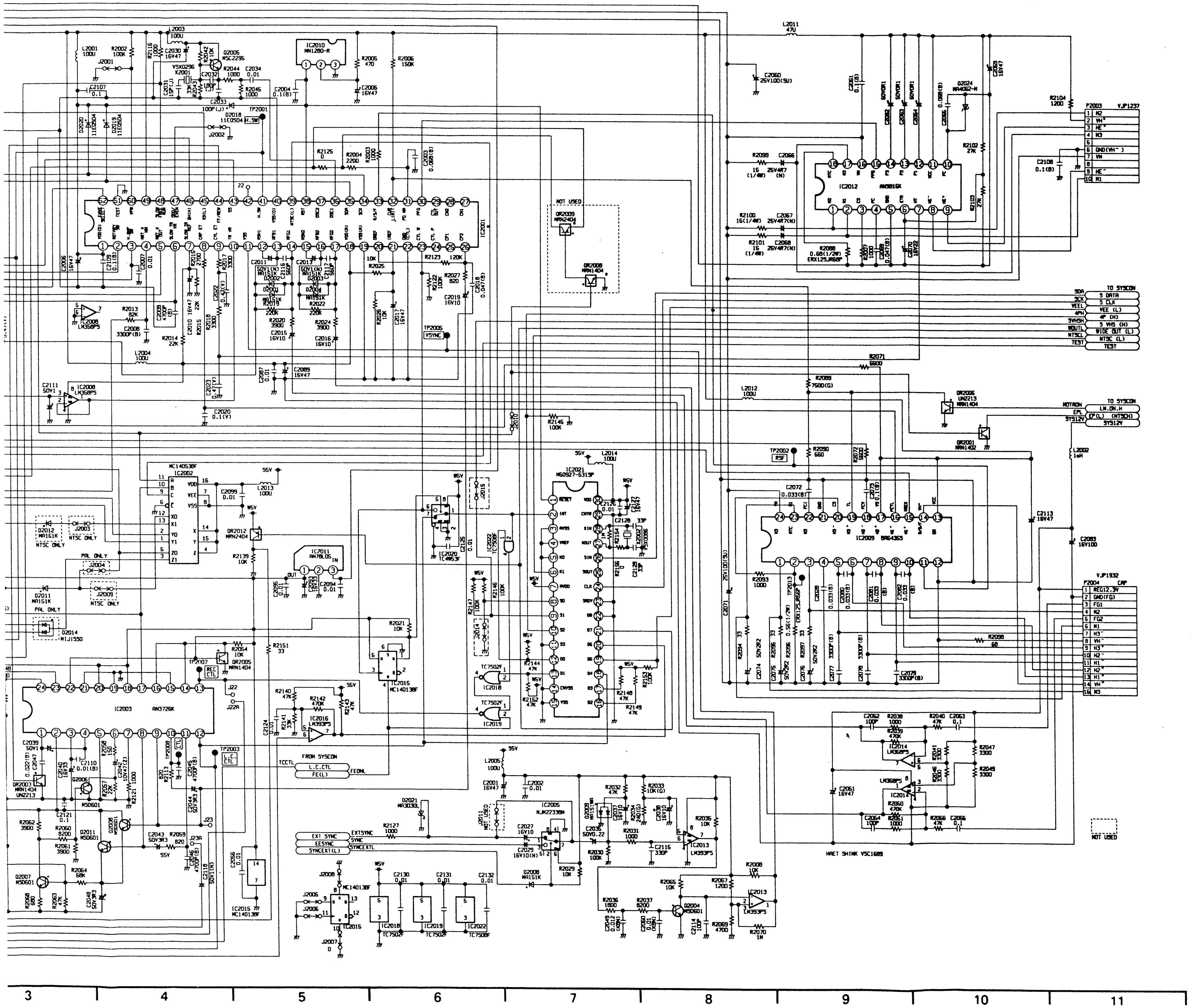
SERVO SCHEMATIC DIAGRAM AG-7355/7350/7150

(Page SCM-6)


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
UNREG GND 2
VM PROTECT
SYSCON
REG12.3V
N.9M5.4V
A.GND
UNREG GND1
UNREG 22V
D.GND
TO SYSCON
SSCK
SSDA
CAPFG
GND
TO SYSCON (VIDEO)
H.SW
SLOW(L)
ROTARYSW
H.ASW
ENVSELEC
ARTV/H
TO SYSCON
TRAC VR(+)
TRAC VR(-)
SLOW TRAC(+)
SLOW TRAC(-)
P2005
2mmPICH PACK PIN
PG SHIFT PAL
VLOCK.PAL
NTSC 5V
PG.SHIFT
SP 5V
VLOCK
FWD FIX
REV FIX
SLOW TR
TR FIX
TR VR
SFR+
SFR-
SLOW FREE RUN
EP 5V
TO SYSCON
REV(H)
SRPHT
P2002 VJP1236
WIDE IN
WIDE OUT
TEST
SRPHT
HSW
CAP FG
CTL
GND
SFR
TO CTL HEAD
P2001 VJP1230
CTL GND
CTL HEAD(+)
CTL HEAD(-)
HEAT SINK VSC1068
IC2001
IC2002 MC14053BF
IC2003 AN3726K
IC2005 NJM2233BM
IC2009 BA6436S
IC2011 AN78L05
IC2012 AN3816K
IC2021 M60927-6315P
IC2013 LM393PS
IC2014 LM358PS
IC2015 MC14013BF
IC2016 LM393PS
IC2017 LM393PS
IC2008 LM358PS
NOT USED
PAL ONLY
NTSC ONLY
FROM SYSCON
L.C.CTL
FE(L)
EXT SYNC
EESYNC
SYNC(EXT)(L)
HAET SHINK VSC1689

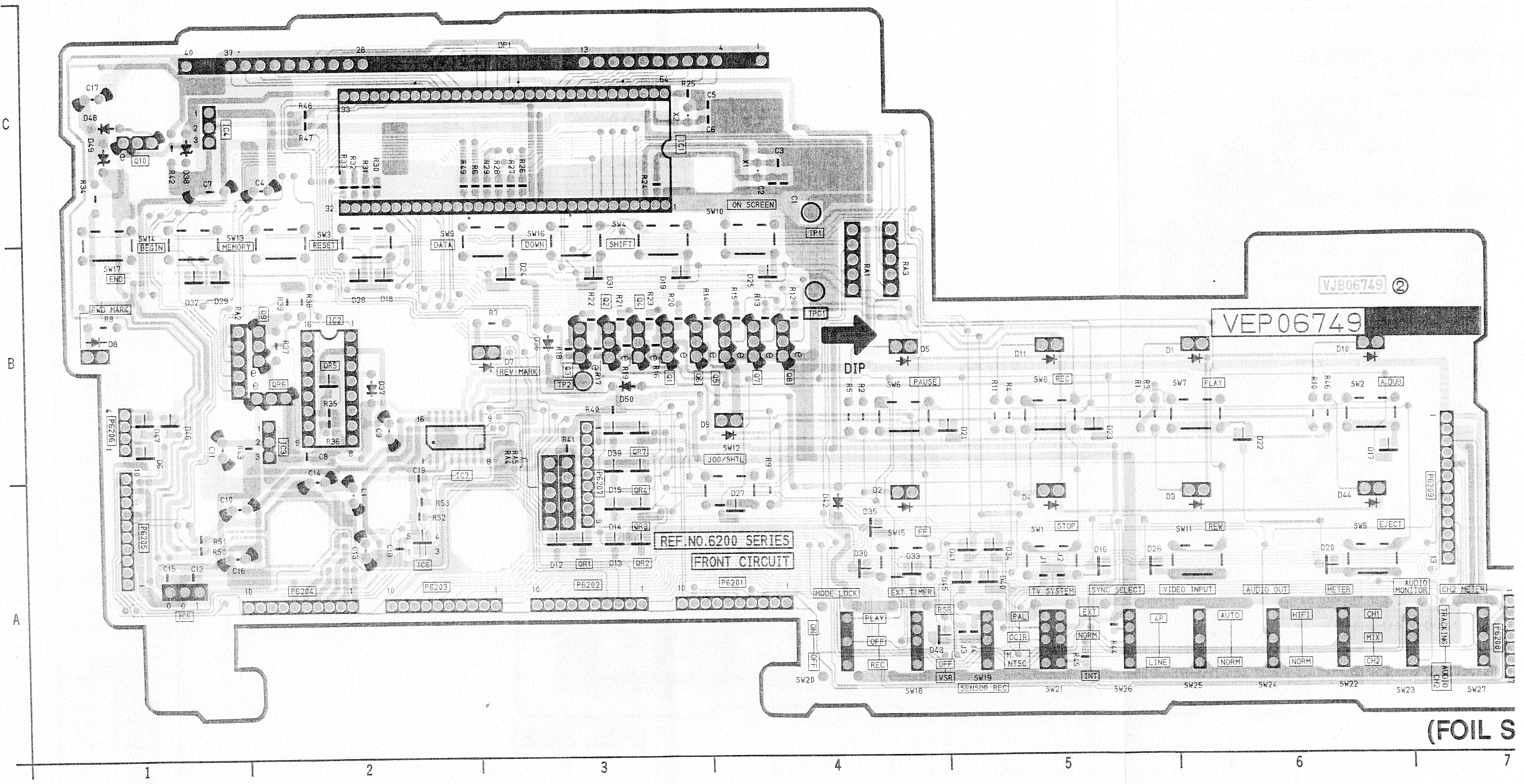
Ref	IC2001
NTSC	MN6742VCRN3
PAL	MN6742VCR0

Ref	NTSC	PAL
R2013	82K	22K
C2022	0.47(V)	0.56(V)
C2023	0.47(V)	0.56(V)


IC2001
IC2002 MC14053BF
IC2003 AN3726K
IC2008 LM358PS
IC2009 BA6436S
IC2010 MN1280-R
IC2011 AN78L05
IC2012 AN3816K
IC2013 LM393PS
IC2014 LM358PS
IC2015 MC14013BF
IC2016 LM393PS
IC2018 TC7502F
IC2019 TC7502F
IC2020 TC4S53F
IC2021 M60927-631SP
IC2022 TC7S08F
IC2005 NJM2233BM
L2011 47U
L2012 100U
L2014 100U
L2003 100U
L2004 100U
L2005 100U
L2002 1mH
P2003 VJP1237
P2004 CAP VJP1932
TO SYSCON
S DATA
S CLK
VEE (L)
4P (H)
S VHS (H)
WIDE OUT (L)
NTSC (L)
TEST
LM.ON.H
EP(L) (NTSC)
5Y512V
FROM SYSCON
L.C.CTL
FE(L)
EXT SYNC
EESYNC
SYNCEXT(L)
VSYNC
REC CTL
NOT USED
NTSC ONLY
PAL ONLY
HAET SHINK VSC1689
D2024 MA4062-M
QR2006 UN2213
QR2001 MRN1402
QR2009 MRN2404
QR2008 MRN1404
QR2012 MRN2404
QR2005 MRN1404
QR2003 MRN1404
Q2005 MSC2295
Q2004 MSD601
Q2006 MSD601
Q2007 MSD601
Q2008 MSD601
Q2011 MSD601
D2014 MIJ1550
TP2001
TP2002
TP2003
TP2005
TP2007
TP2008
3
4
5
6
7
8
9
10
11

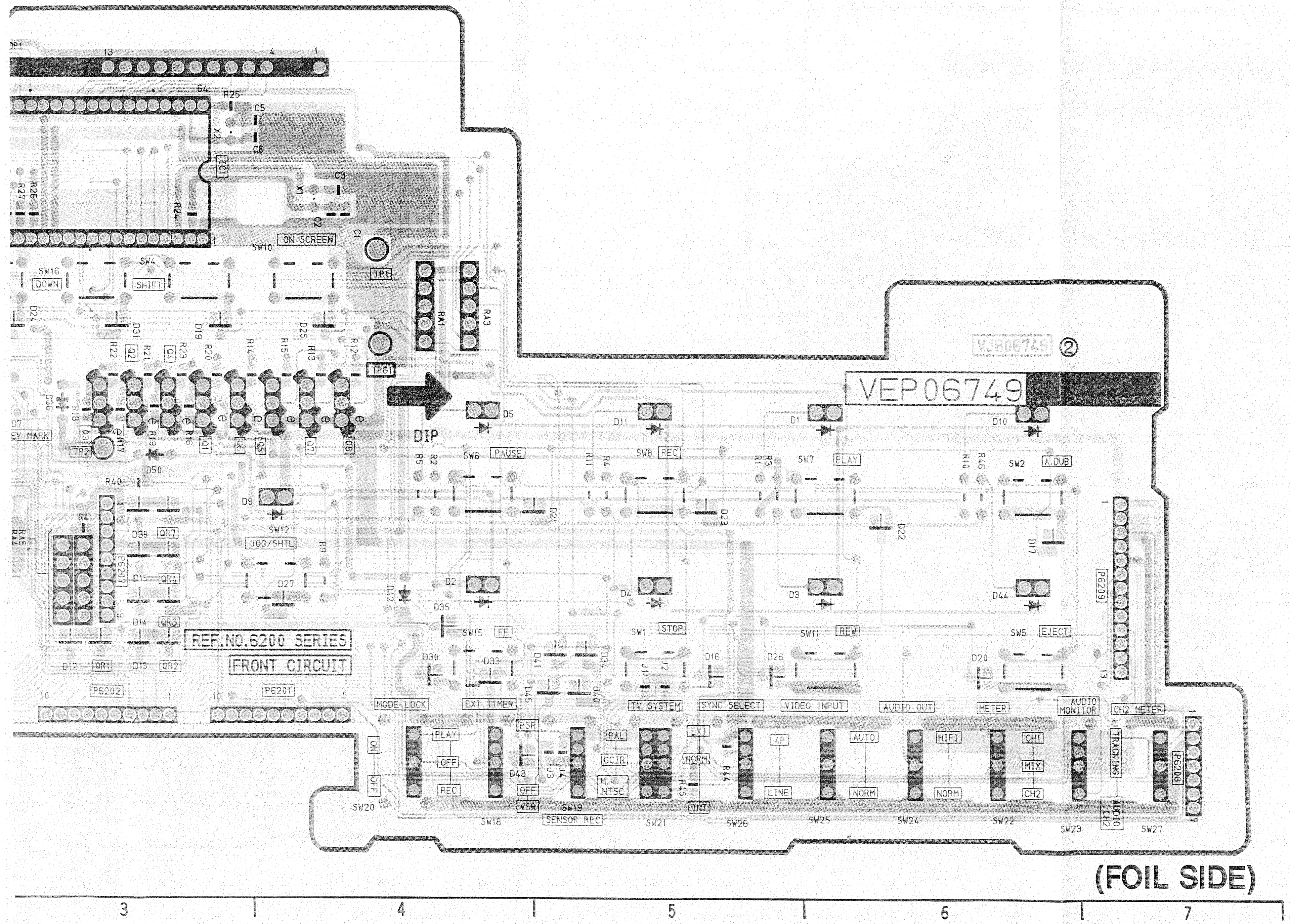
FRONT C.B.A. AG-7355/7350/7150

(Page SCM-22)



C
B
A
1
2
3
4
5
6
7
VEP06749
VJB06749 ②
DIP
REF.NO.6200 SERIES
FRONT CIRCUIT
ON SCREEN
SW14 BEGIN
SW17 END
SW13 MEMORY
SW3 RESET
SW9 DATA
SW16 DOWN
SW4 SHIFT
SW10
FWD MARK
REV MARK
JOG/SHTL
SW12
SW6 PAUSE
SW8 REC
SW7 PLAY
SW2 A.DUB
SW15 FF
SW1 STOP
SW11 REW
SW5 EJECT
MODE LOCK
EXT TIMER
TV SYSTEM
SYNC SELECT
VIDEO INPUT
AUDIO OUT
METER
AUDIO MONITOR
CH2 METER
PLAY
OFF
REC
ON
OFF
SW20
RSR
VSR
SW18
SW19
SENSOR REC
PAL
CCIR
M.NTSC
SW21
EXT
NORM
INT
SW26
4P
LINE
SW25
AUTO
NORM
SW24
HIFI
NORM
SW22
CH1
MIX
CH2
SW23
TRACKING
AUDIO CH2
SW27
P6201
P6202
P6203
P6204
P6205
P6206
P6207
P6208
P6209
IC1
IC2
IC3
IC4
IC5
IC6
IC7
QR1
QR2
QR3
QR4
QR5
QR6
QR7
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
TP1
TP2
TPG1
RA1
RA2
RA3
RA4
RA5
DP1
X1
X2

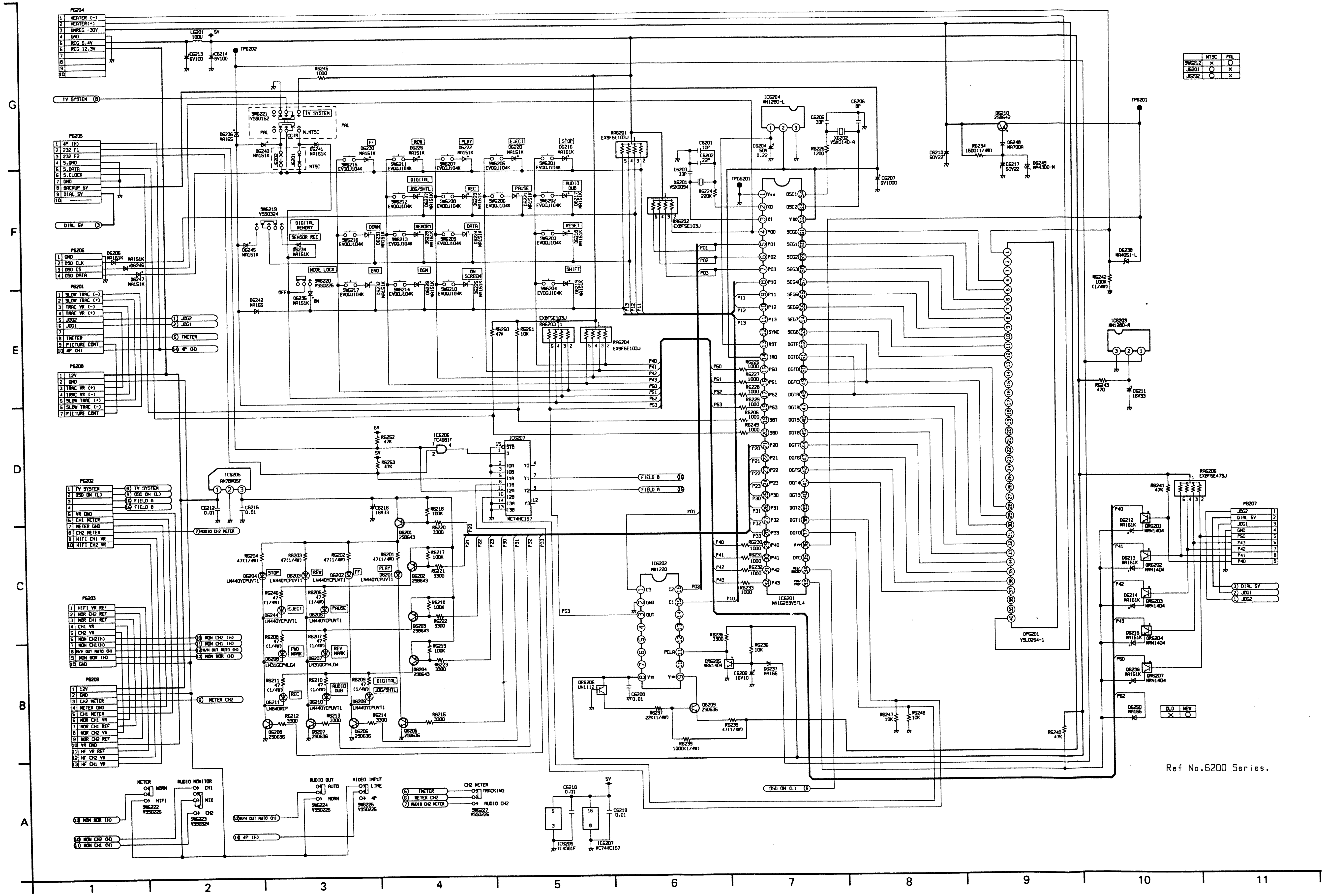
(FOIL S


VEP06749
VJB06749 ②
DIP
REF.NO.6200 SERIES
FRONT CIRCUIT
ON SCREEN
DOWN
SHIFT
PAUSE
REC
PLAY
A.DUB
JOG/SHTL
FF
STOP
REW
EJECT
MODE LOCK
EXT TIMER
TV SYSTEM
SYNC SELECT
VIDEO INPUT
AUDIO OUT
METER
AUDIO MONITOR
CH2 METER
SENSOR REC
TRACKING
P6201
P6202
P6207
P6208
P6209
TP1
TP2
TPG1
(FOIL SIDE)
3
4
5
6
7

FRONT
C.B.A.

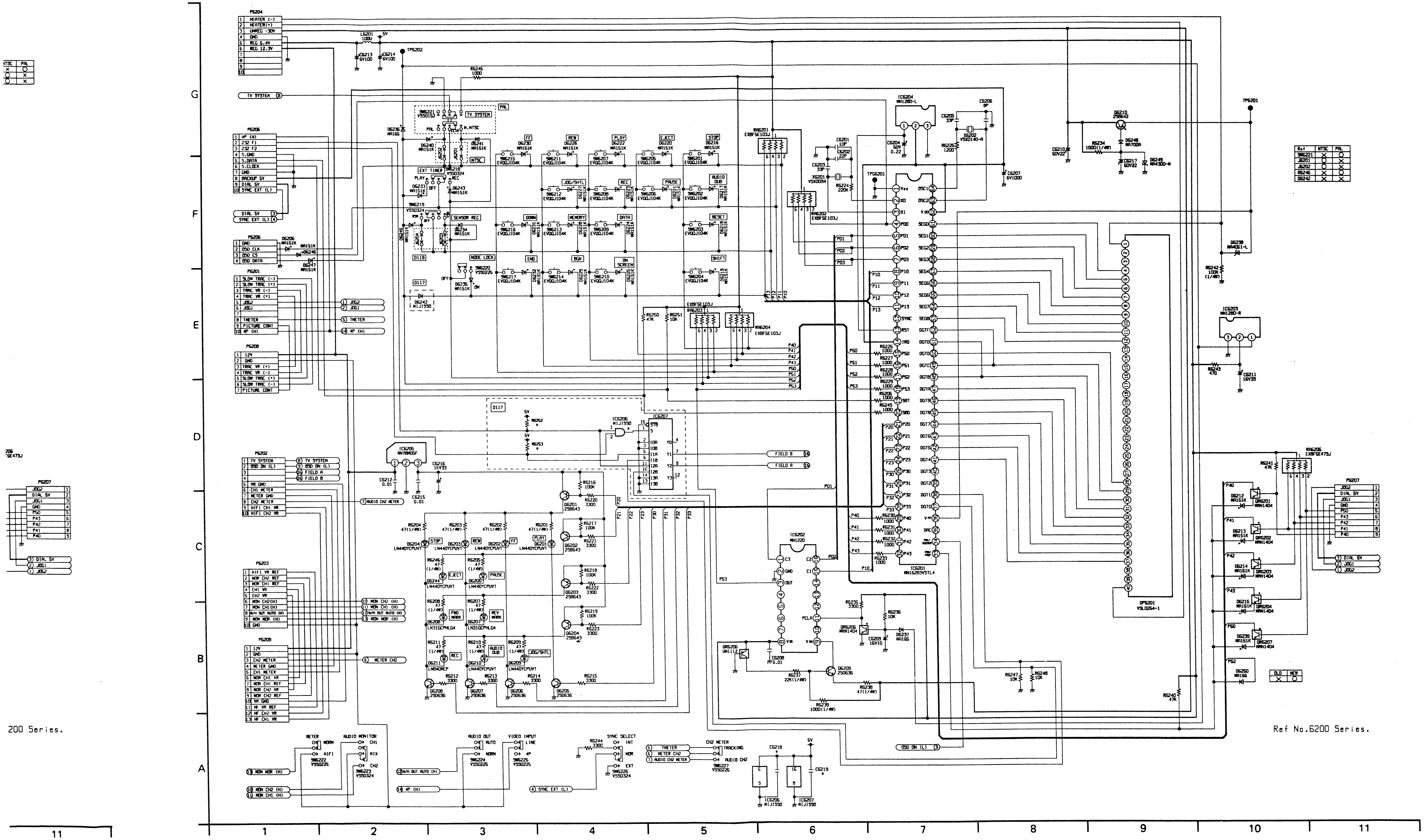
Ttansistor	
Q6201	B-3
Q6202	B-3
Q6203	B-3
Q6204	B-3
Q6205	B-4
Q6206	B-3
Q6207	B-4
Q6208	B-4
Q6209	B-2
Q6210	C-1
Transistor & Resistor	
QR6201	A-3
QR6202	A-3
QR6203	A-3
QR6204	A-3
QR6205	B-2
QR6206	B-2
QR6207	B-3
Integrated Circuit	
IC6201	C-3
IC6202	B-2
IC6203	B-2
IC6204	C-1
IC6205	A-1
IC6206	A-2
IC6207	B-2
Test Point	
TP6201	C-4
TP6202	B-3
TPG6201	B-4
Connector	
P6201	A-4
P6202	A-3
P6203	A-2
P6204	A-2
P6205	A-1
P6206	B-1
P6207	B-3
P6208	A-7
P6209	A-7

FRONT SCHEMATIC DIAGRAM AG7355
(Page SCM-23)


P6204
HEATER (-)
HEATER(+)
UNREG -30V
GND
REG 5.4V
REG 12.3V
L6201 100U
5V
C6213 6V100
C6214 6V100
TP6202
R6245 1000
TV SYSTEM
P6205
4P (H)
232 F1
232 F2
S.GND
S.DATA
S.CLOCK
GND
BACKUP 5V
DIAL 5V
DIAL 5V
P6206
GND
OSD CLK
OSD CS
OSD DATA
P6201
SLOW TRAC (-)
SLOW TRAC (+)
TRAC VR (-)
TRAC VR (+)
JOG2
JOG1
TMETER
PICTURE CONT
4P (H)
P6208
12V
GND
TRAC VR (+)
TRAC VR (-)
SLOW TRAC (+)
SLOW TRAC (-)
PICTURE CONT
SW6221 YSS0152
PAL
N.NTSC
NTSC
CCIR
FF
REW
PLAY
EJECT
STOP
DIGITAL
JOG/SHTL
REC
PAUSE
AUDIO DUB
DIGITAL MEMORY
SENSOR REC
DOWN
MEMORY
DATA
RESET
MODE LOCK
END
BGN
ON SCREEN
SHIFT
SW6219 YSS0324
SW6220 YSS0225
IC6204 MN1280-L
C6206 8P
C6205 33P
X6202 YSX0140-A
R6225 1200
C6207 6V1000
RA6201 EXBF5E103J
RA6202 EXBF5E103J
RA6203 EXBF5E103J
RA6204 EXBF5E103J
X6201 YSX0094
R6224 220K
TP6201
IC6201 MN1628YSTL4
IC6202 MN1220
IC6203 MN1280-R
IC6205 AN78M05F
IC6206 TC4581F
IC6207 MC74HC157
Q6210 2SB642
Q6201 2SB643
Q6202 2SB643
Q6203 2SB643
Q6204 2SB643
Q6205 2SD636
Q6206 2SD636
Q6207 2SD636
Q6208 2SD636
Q6209 2SD636
QR6205 NRN1404
QR6206 UN1112
R6234 1500(1/4W)
D6248 MA700A
C6217 50V22
D6249 MA4300-H
D6238 MA4051-L
R6242 100K (1/4W)
R6243 470
C6211 16V33
RA6205 EXBF6E473J
R6241 47K
FIELD B
FIELD A
P6202
TV SYSTEM
OSD ON (L)
VR GND
CH1 METER
METER GND
CH2 METER
HIFI CH1 VR
HIFI CH2 VR
AUDIO CH2 METER
P6203
HIFI VR REF
NOR CH2 REF
NOR CH1 REF
CH1 VR
CH2 VR
MON CH2(H)
MON CH1(H)
H/H OUT AUTO (H)
MON NOR (H)
GND
P6209
12V
GND
CH2 METER
METER GND
CH1 METER
NOR CH1 VR
NOR CH1 REF
NOR CH2 REF
NOR CH2 VR
VR GND
HF VR REF
HF CH2 VR
HF CH1 VR
METER CH2
P6207
JOG2
DIAL 5V
JOG1
GND
P50
P43
P42
P41
P40
DIAL 5V
JOG1
JOG2
OPG201 YSL0264-1
OSD ON (L)
METER
AUDIO MONITOR
NORM
HIFI
MIX
CH1
CH2
SW6222 YSS0225
SW6223 YSS0324
AUDIO OUT
AUTO
NORM
SW6224 YSS0225
VIDEO INPUT
LINE
4P
SW6225 YSS0225
TMETER
METER CH2
AUDIO CH2 METER
CH2 METER
TRACKING
AUDIO CH2
SW6227 YSS0225
MON NOR (H)
H/H OUT AUTO (H)
4P (H)
MON CH2 (H)
MON CH1 (H)
C6218 0.01
5V
C6219 0.01
IC6206 TC4581F
IC6207 MC74HC157
OLD
NEW
Ref No.6200 Series.
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

	NTSC	PAL
SW6212	×	○
J6201	○	×
J6202	○	×

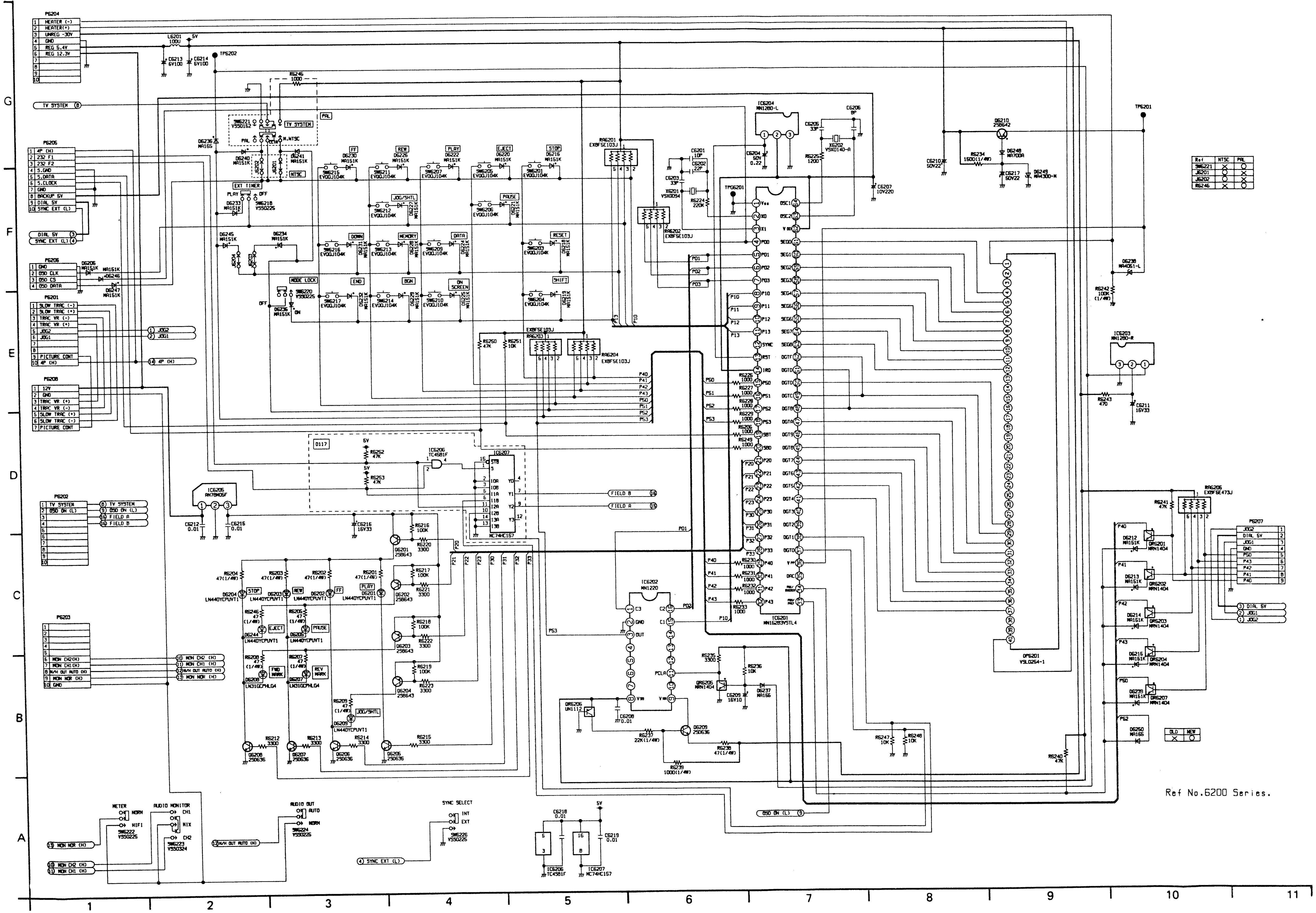
FRONT SCHEMATIC DIAGRAM AG-7350
(Page SCM-23)

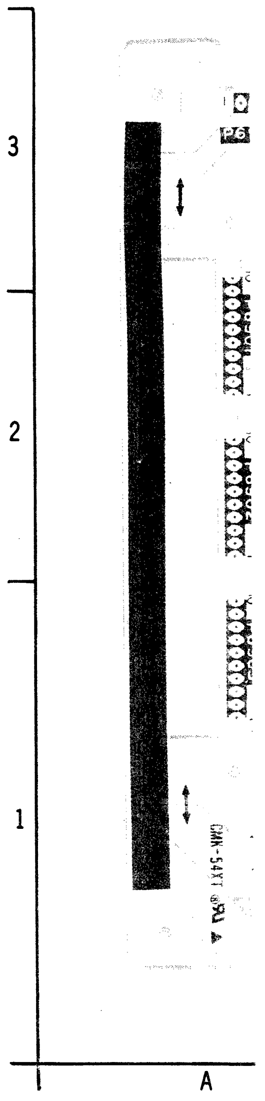

P6204
HEATER (-)
HEATER(+)
UNREG -30V
GND
REG 5.4V
REG 12.3V
L6201 100U
TP6202
TV SYSTEM
P6206
P6205
P6201
P6208
P6202
P6203
P6209
P6207
IC6204 MN1280-L
IC6201 MN15283VSTL4
IC6202 MN1220
IC6203 MN1280-R
IC6205 AN78M05F
IC6206 NJ1550
IC6207
D0117
D0119
DP6201 VSL0264-1
TP6201
TPG6201
RA6201 EXBFSE103J
RA6202 EXBFSE103J
RA6203
RA6204 EXBFSE103J
RA6205 EXBF5E473J
X6201 VSX0094
X6202 VSX0140-A
Q6210 2SB642
FF
REW
PLAY
EJECT
STOP
JOG/SHTL
REC
PAUSE
AUDIO DUB
SENSOR REC
DOWN
MEMORY
DATA
RESET
MODE LOCK
END
BGN
ON SCREEN
SHIFT
EXT TIMER
FIELD B
FIELD A
METER
AUDIO MONITOR
AUDIO OUT
VIDEO INPUT
SYNC SELECT
CH2 METER
OSD ON (L)
OLD
NEW
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
200 Series.
Ref No.6200 Series.

Ref	NTSC	PAL
SW6221	×	○
J6201	○	×
J6202	○	×
R6246	×	○
D6242	×	×

FRONT SCHEMATIC DIAGRAM AG-7150
(Page SCM-23)

REAR JACK
(Page SCM-25)

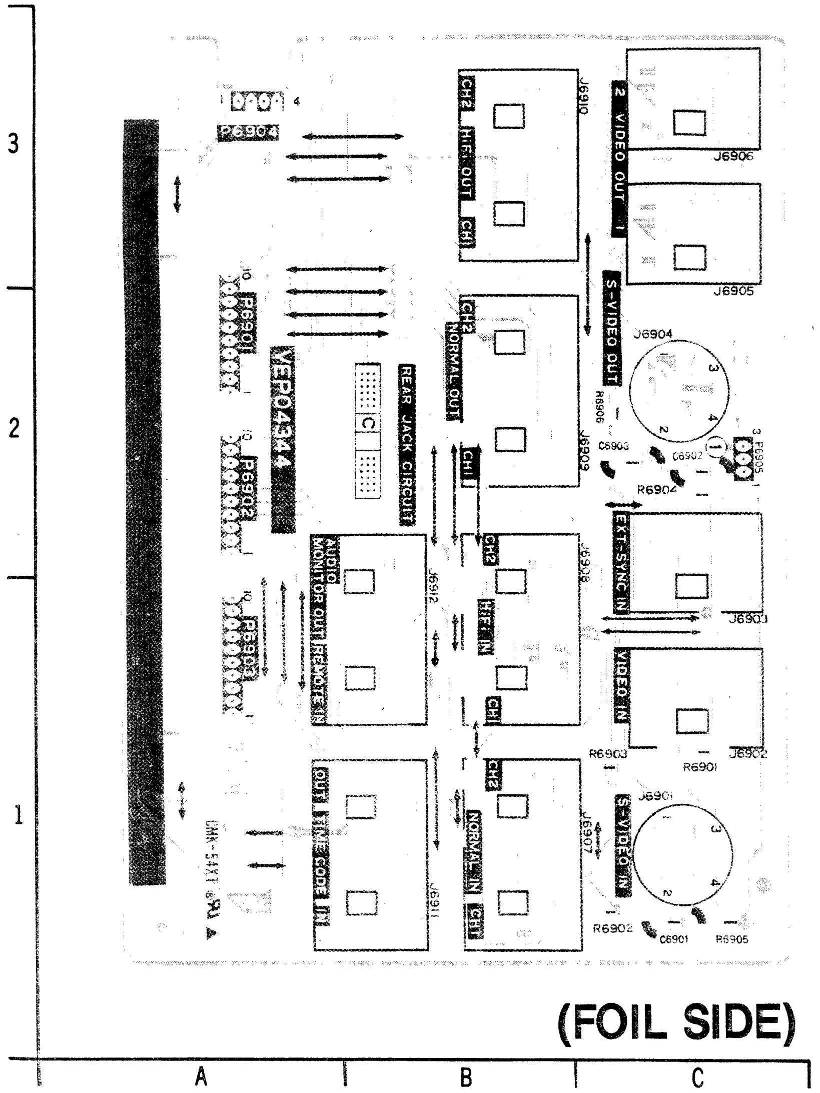

P6204
HEATER (-)
HEATER (+)
UNREG -30V
GND
REG 5.4V
REG 12.3V
P6205
P6206
P6201
P6208
P6202
P6203
IC6201 MN15283VSTL4
IC6202 MN1220
IC6203 MN1280-R
IC6204 MN1280-L
IC6205 AN78M05F
IC6206 TC4581F
IC6207 MC74HC157
DP6201 VSL0254-1
P6207
TV SYSTEM
FIELD A
FIELD B
FF
REW
PLAY
EJECT
STOP
PAUSE
JOG/SHTL
DOWN
MEMORY
DATA
RESET
MODE LOCK
END
BGN
ON SCREEN
SHIFT
EXT TIMER
NTSC
PAL
FWD MARK
REV MARK
METER
AUDIO MONITOR
AUDIO OUT
SYNC SELECT
Ref
NTSC
PAL
SW6221 X O
J6201 O X
J6202 O X
R6246 X O
OLD
NEW
Ref No.6200 Series.
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11



REARJACK
C.B.A.

Connector	
P6901	A-2
P6902	A-2
P6903	A-1
P6904	A-3

REAR JACK C.B.A. AG-7355/7350/7150
(Page SCM-25)

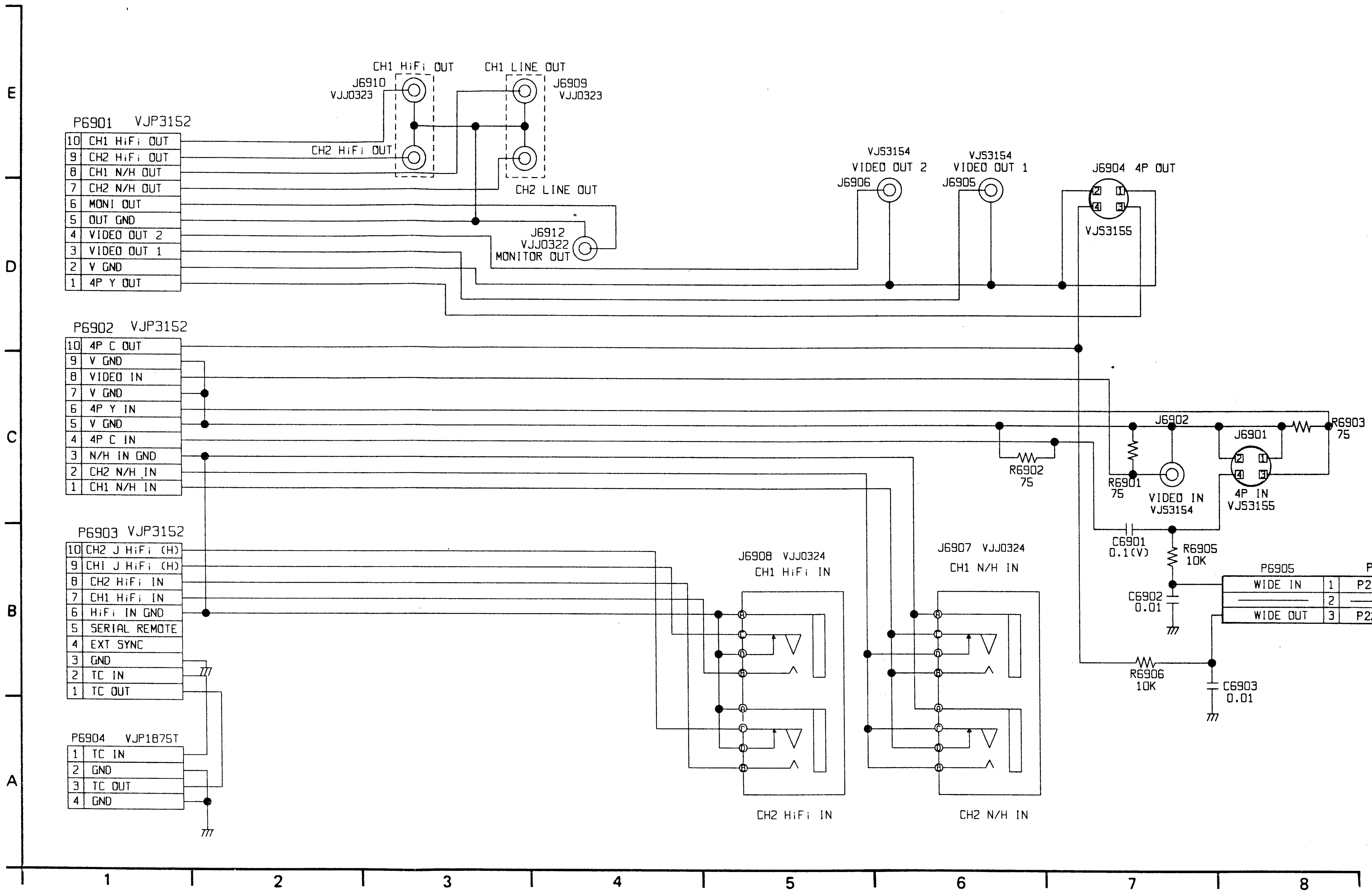

3
2
1
A
B
C
P6904
P6901
P6902
P6903
VEP04344
REAR JACK CIRCUIT
CH2 HiFi OUT CH1
2 VIDEO OUT 1
J6910
J6906
J6905
CH2 NORMAL OUT CH1
S-VIDEO OUT
J6904
J6909
R6906
C6903
C6902
P6905
R6904
AUDIO MONITOR OUT REMOTE IN
J6912
CH2 HiFi IN CH1
J6908
EXT-SYNC IN
J6903
VIDEO IN
J6902
R6903
R6901
J6901
OUT TIME CODE IN
J6911
CH2 NORMAL IN CH1
J6907
S-VIDEO IN
R6902
C6901
R6905

(FOIL SIDE)

REARJACK
C.B.A.

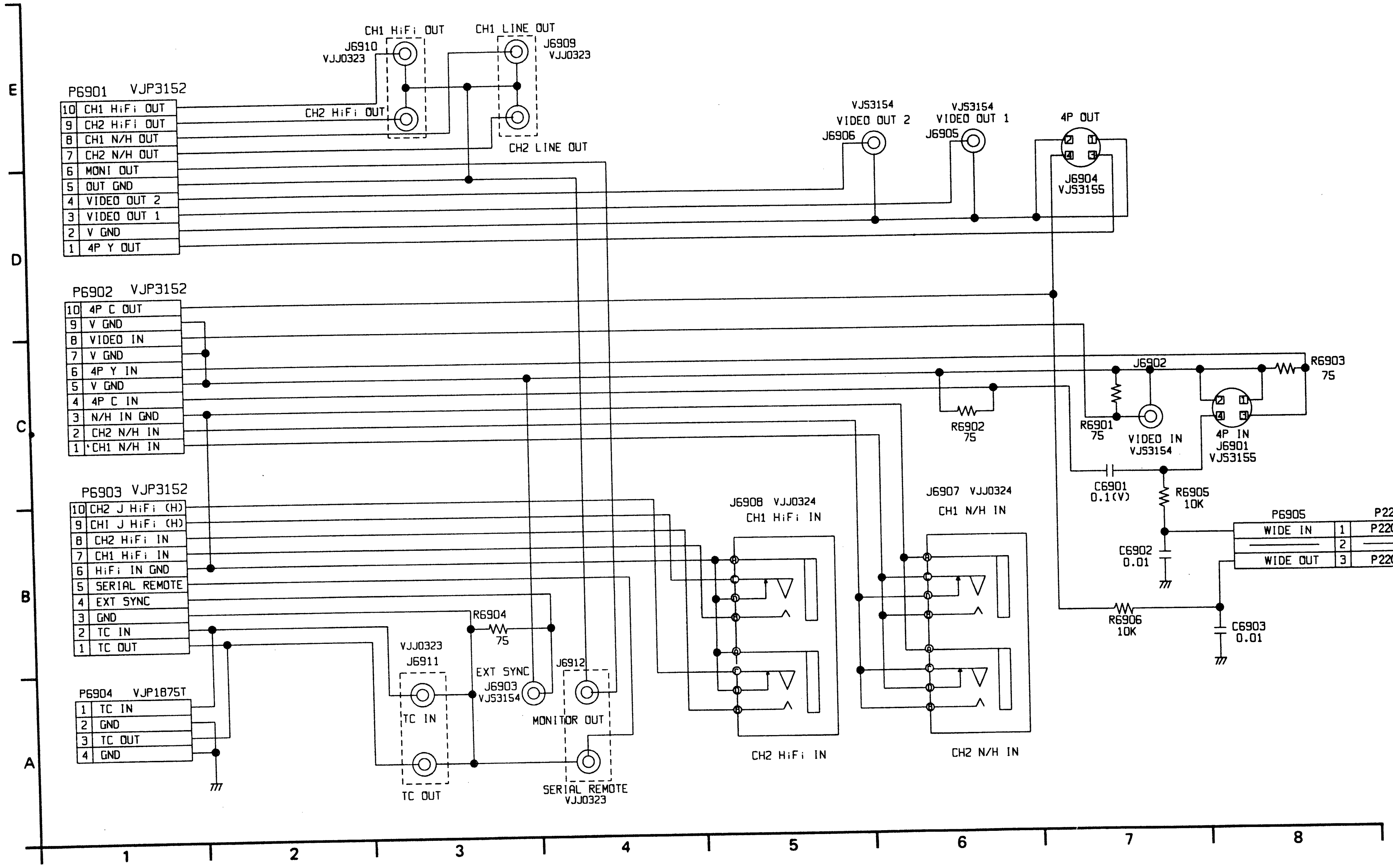
Connector	
P6901	A-2
P6902	A-2
P6903	A-1
P6904	A-3

REAR JACK SCHEMATIC DIAGRAM AG-7355
(Page SCM-25)


E
D
C
B
A
1
2
3
4
5
6
7
8
P6901 VJP3152
10 CH1 HiFi OUT
9 CH2 HiFi OUT
8 CH1 N/H OUT
7 CH2 N/H OUT
6 MONI OUT
5 OUT GND
4 VIDEO OUT 2
3 VIDEO OUT 1
2 V GND
1 4P Y OUT
CH1 HiFi OUT
J6910
VJJ0323
CH1 LINE OUT
J6909
VJJ0323
CH2 HiFi OUT
CH2 LINE OUT
J6912
VJJ0322
MONITOR OUT
VJS3154
VIDEO OUT 2
J6906
VJS3154
VIDEO OUT 1
J6905
J6904 4P OUT
VJS3155
P6902 VJP3152
10 4P C OUT
9 V GND
8 VIDEO IN
7 V GND
6 4P Y IN
5 V GND
4 4P C IN
3 N/H IN GND
2 CH2 N/H IN
1 CH1 N/H IN
J6902
J6901
R6903
75
R6902
75
R6901
75
VIDEO IN
VJS3154
4P IN
VJS3155
C6901
0.1(V)
R6905
10K
C6902
0.01
P6905
WIDE IN
WIDE OUT
P2205
1 P2205-1
2
3 P2205-3
R6906
10K
C6903
0.01
P6903 VJP3152
10 CH2 J HiFi (H)
9 CH1 J HiFi (H)
8 CH2 HiFi IN
7 CH1 HiFi IN
6 HiFi IN GND
5 SERIAL REMOTE
4 EXT SYNC
3 GND
2 TC IN
1 TC OUT
J6908 VJJ0324
CH1 HiFi IN
CH2 HiFi IN
J6907 VJJ0324
CH1 N/H IN
CH2 N/H IN
P6904 VJP1875T
1 TC IN
2 GND
3 TC OUT
4 GND

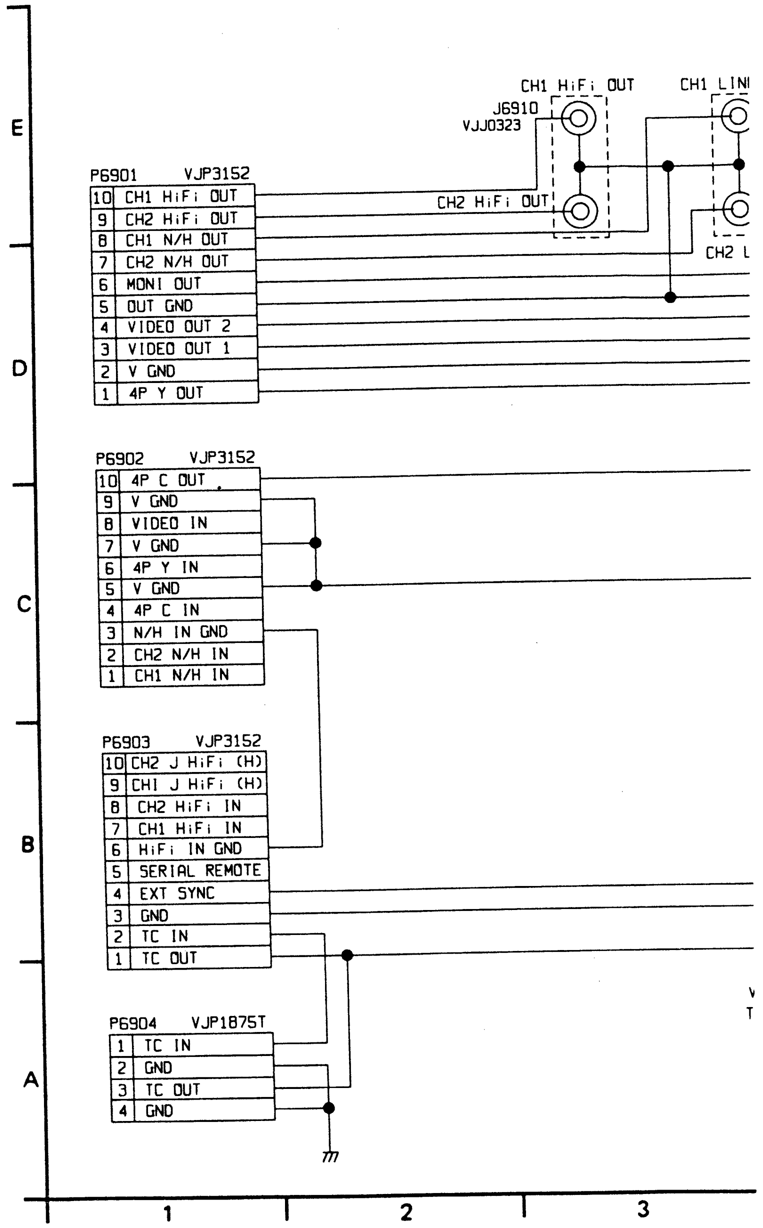
REAR JACK SCHEMATIC DIAGRAM AG-7350

(Page SCM-25)



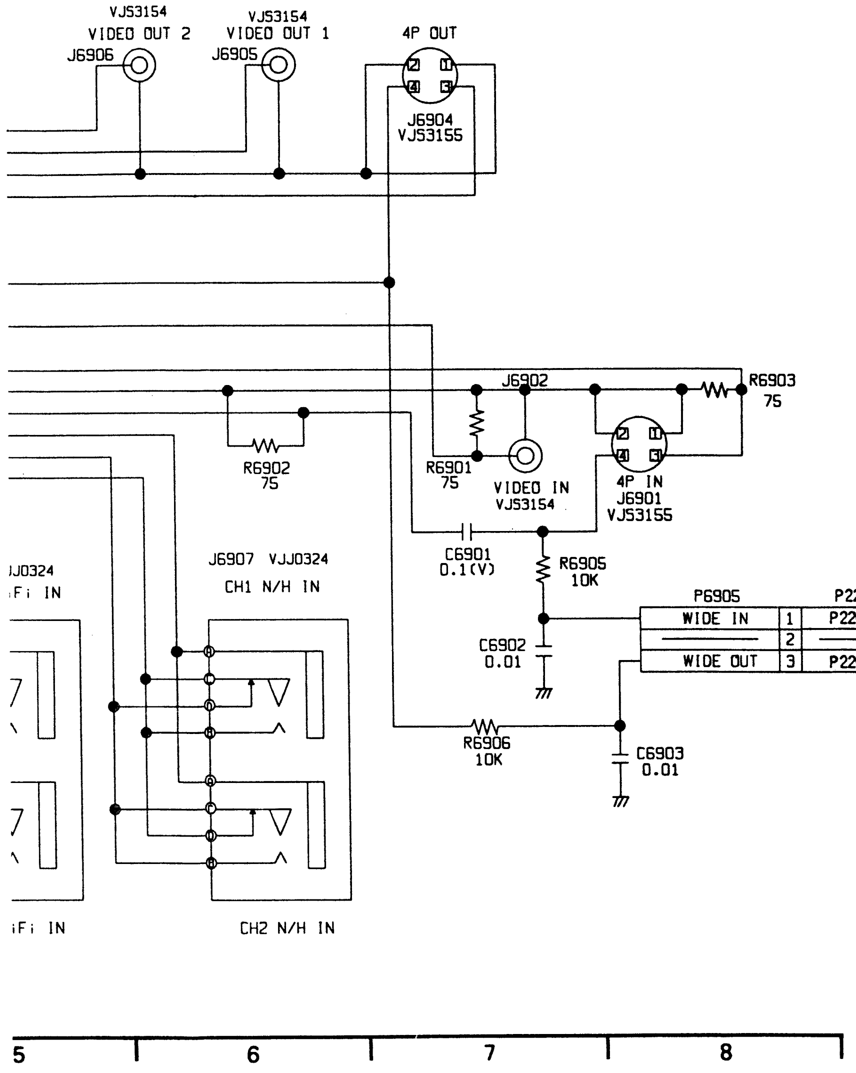
E
D
C
B
A
1
2
3
4
5
6
7
8
P6901 VJP3152
10 CH1 HiFi OUT
9 CH2 HiFi OUT
8 CH1 N/H OUT
7 CH2 N/H OUT
6 MONI OUT
5 OUT GND
4 VIDEO OUT 2
3 VIDEO OUT 1
2 V GND
1 4P Y OUT
P6902 VJP3152
10 4P C OUT
9 V GND
8 VIDEO IN
7 V GND
6 4P Y IN
5 V GND
4 4P C IN
3 N/H IN GND
2 CH2 N/H IN
1 CH1 N/H IN
P6903 VJP3152
10 CH2 J HiFi (H)
9 CH1 J HiFi (H)
8 CH2 HiFi IN
7 CH1 HiFi IN
6 HiFi IN GND
5 SERIAL REMOTE
4 EXT SYNC
3 GND
2 TC IN
1 TC OUT
P6904 VJP1875T
1 TC IN
2 GND
3 TC OUT
4 GND
CH1 HiFi OUT
J6910
VJJ0323
CH2 HiFi OUT
CH1 LINE OUT
J6909
VJJ0323
CH2 LINE OUT
VJS3154
VIDEO OUT 2
J6906
VJS3154
VIDEO OUT 1
J6905
4P OUT
J6904
VJS3155
J6902
R6903
75
R6902
75
R6901
75
VIDEO IN
VJS3154
4P IN
J6901
VJS3155
C6901
0.1(V)
R6905
10K
C6902
0.01
R6906
10K
C6903
0.01
P6905
WIDE IN
WIDE OUT
1
2
3
P2205
P2205-1
P2205-3
J6908 VJJ0324
CH1 HiFi IN
CH2 HiFi IN
J6907 VJJ0324
CH1 N/H IN
CH2 N/H IN
R6904
75
VJJ0323
J6911
TC IN
TC OUT
EXT SYNC
J6903
VJS3154
J6912
MONITOR OUT
SERIAL REMOTE
VJJ0323

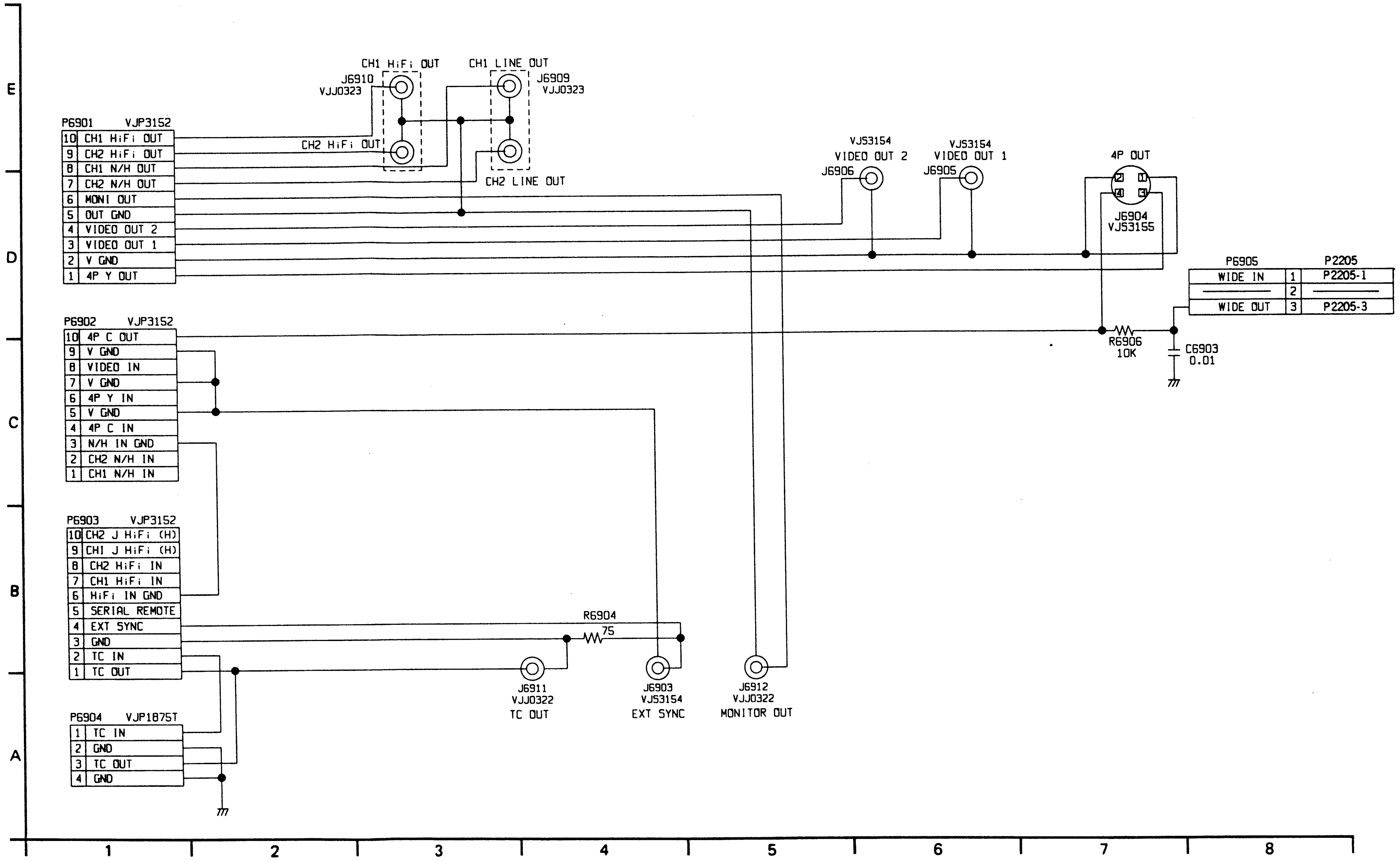
REAR JACK SCHEMATIC DIAGRAM
(Page SCM-25)



E
D
C
B
A
1
2
3
P6901 VJP3152
10 CH1 HiFi OUT
9 CH2 HiFi OUT
8 CH1 N/H OUT
7 CH2 N/H OUT
6 MONI OUT
5 OUT GND
4 VIDEO OUT 2
3 VIDEO OUT 1
2 V GND
1 4P Y OUT
P6902 VJP3152
10 4P C OUT
9 V GND
8 VIDEO IN
7 V GND
6 4P Y IN
5 V GND
4 4P C IN
3 N/H IN GND
2 CH2 N/H IN
1 CH1 N/H IN
P6903 VJP3152
10 CH2 J HiFi (H)
9 CH1 J HiFi (H)
8 CH2 HiFi IN
7 CH1 HiFi IN
6 HiFi IN GND
5 SERIAL REMOTE
4 EXT SYNC
3 GND
2 TC IN
1 TC OUT
P6904 VJP1875T
1 TC IN
2 GND
3 TC OUT
4 GND
CH1 HiFi OUT
J6910
VJJ0323
CH2 HiFi OUT

REAR JACK SCHEMATIC DIAGRAM AG-7150
(Page SCM-25)


VJ53154
VIDEO OUT 2
J6906
VJ53154
VIDEO OUT 1
J6905
4P OUT
J6904
VJ53155
J6902
R6903
75
R6902
75
R6901
75
VIDEO IN
VJ53154
4P IN
J6901
VJ53155
C6901
0.1(V)
R6905
10K
C6902
0.01
R6906
10K
C6903
0.01
P6905
P2205
WIDE IN
WIDE OUT
P2205-1
P2205-3
J6907 VJJ0324
CH1 N/H IN
CH2 N/H IN
JJ0324
Fi IN
Fi IN
5
6
7
8


CH1 HiFi OUT
CH1 LINE OUT
J6910
VJJ0323
J6909
VJJ0323
CH2 HiFi OUT
CH2 LINE OUT
P6901 VJP3152
10 CH1 HiFi OUT
9 CH2 HiFi OUT
8 CH1 N/H OUT
7 CH2 N/H OUT
6 MONI OUT
5 OUT GND
4 VIDEO OUT 2
3 VIDEO OUT 1
2 V GND
1 4P Y OUT
VJ53154
VIDEO OUT 2
J6906
VJ53154
VIDEO OUT 1
J6905
4P OUT
J6904
VJ53155
P6905
P2205
1 WIDE IN P2205-1
2
3 WIDE OUT P2205-3
R6906
10K
C6903
0.01
P6902 VJP3152
10 4P C OUT
9 V GND
8 VIDEO IN
7 V GND
6 4P Y IN
5 V GND
4 4P C IN
3 N/H IN GND
2 CH2 N/H IN
1 CH1 N/H IN
P6903 VJP3152
10 CH2 J HiFi (H)
9 CH1 J HiFi (H)
8 CH2 HiFi IN
7 CH1 HiFi IN
6 HiFi IN GND
5 SERIAL REMOTE
4 EXT SYNC
3 GND
2 TC IN
1 TC OUT
R6904
75
J6911
VJJ0322
TC OUT
J6903
VJ53154
EXT SYNC
J6912
VJJ0322
MONITOR OUT
P6904 VJP1875T
1 TC IN
2 GND
3 TC OUT
4 GND
E
D
C
B
A
1
2
3
4
5
6
7
8

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP06848F	P.C.BOARD W/COMPONENT		FOR AG-7350E/B
			SERVO & SYSTEM CONTROL		
AT6001		VSB0173	BATTRY	1	
1901,02		ECEA1EU331	E.CAPACITOR 25V 330U	2	
1903		ECEA1VKA470	E.CAPACITOR 35V 47U	1	
1904		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
1905		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
1906		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
1907		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	1	
1908-10		ECEA1HKA010	E.CAPACITOR 50V 1U	3	
1911		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
1912,13		ECEA1EU221	E.CAPACITOR 25V 220U	2	
1914		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
1915		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
2001		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
2002		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
2003		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
2004		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
2005,06		ECEA1CKA470	E.CAPACITOR 16V 47U	2	
2007		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
2008		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
2009		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
2010		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
2011		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
2013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2015,16		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C2017		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
2018		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
2019		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
2020		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2022,23		ECQV1H564JZ	P.CAPACITOR 50V 0.56U	2	
C2027		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
2028		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
2029		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2030		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2031		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
2032		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
2033		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
2034		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2035		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2036		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
2037,38		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
2039		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
2040,41		ECEA1CKA330	E.CAPACITOR 16V 33U	2	
C2042		ECEA10Z47	E.CAPACITOR 10V	1	
C2043,44		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	2	
C2045,46		ECQB1H472JF	P.CAPACITOR 50V 4700P	2	
C2047		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C2048		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C2049		ECUM1H123KBN	C.CAPACITOR CH 50V 0.012U	1	
C2050		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2051		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2052		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2053		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2054		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2055		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2056		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2057,58		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	2	
C2059		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2060		ECEA1EU101	E.CAPACITOR 25V 100U	1	
C2061		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2062-64		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	3	
C2065		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2066-68		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	3	
C2069		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2070		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C2071		ECEA1EU101	E.CAPACITOR 25V 100U	1	
C2072		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C2073		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2074-76		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2077-79		ECQB1H332JF	P.CAPACITOR 50V 3300P	3	
C2080-82		ECQB1H333JF	P.CAPACITOR 50V 0.033U	3	
C2083		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2084		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2085,86		ECEA1EU101	E.CAPACITOR 25V 100U	2	
C2087		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2088		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2089		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2090		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2091		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2092		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C2093		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C2094,95		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2096,97		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	2	
C2098,99		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2100		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C2101-05		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	5	
C2106		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C2107		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2108,09		ECQB1H104JF	P.CAPACITOR 50V 0.1U	2	
C2110		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C2111		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2113		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2114		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2115		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C2116,17		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	2	
C2118		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2121		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2122		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2124-26		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2127		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2128,29		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C2130-32		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2150		ECKF1H561KB	C.CAPACITOR 50V 560P	1	
C6001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6002		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C6003		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C6004-06		ECQB1H104JF	P.CAPACITOR 50V 0.1U	3	
C6007		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C6008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6009		ECEA1CU102B	E.CAPACITOR 16V 1000U	1	
C6010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6011		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C6012		ECEA1CU102B	E.CAPACITOR 16V 1000U	1	
C6014		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C6015		ECEA1EKA470	E.CAPACITOR 25V 47U	1	
C6016,17		ECQB1H104JF	P.CAPACITOR 50V 0.1U	2	
C6018		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C6019		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C6020		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C6021		ECEA1CN101	E.CAPACITOR 16V 100U	1	
C6022		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C6023		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C6024		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C6025,26		ECEA1ASS332	E.CAPACITOR 10V 3300U	2	
C6027		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C6028		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C6029		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C6030		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C6031		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6032		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6033,34		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C6035,36		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6037,38		ECEA1CKA470	E.CAPACITOR 16V 47U	2	
C6039		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6040		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6041		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6043		ECEA1HKA010	E.CAPACITOR 50V 1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6044-46		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	3	
C6048		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6049,50		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6051		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6052		ECUM1H272KBN	C.CAPACITOR CH 50V 2700P	1	
C6053		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6054		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C6056		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6057		ECEA1ASS332	E.CAPACITOR 10V 3300U	1	
C6059,60		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C6061		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
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IC6003		LM339NS	IC	1	<R>

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IC6006		MN4019BS	IC	1	<R>
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J2004-08		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
J2010		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J2012		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J6003,04		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
L1901,02		ELC10E014	COIL	2	
L1903		VLQ0460	COIL	1	
L2001		VLQ0460	COIL	1	
L2002		VLQEL05K102J	COIL	1	
L2003-05		VLQ0460	COIL	3	
L2006-10		VLQEL05K221J	COIL	5	
L2011		VLQEL05K470J	COIL	1	
L2012-14		VLQ0460	COIL	3	
L6001		VLQEL05K471J	COIL	1	
L6002		VLQEL05K150J	COIL	1	
L6003-06		VLQEL05K221J	COIL	4	
L6007		VLQ0460	COIL	1	
P2001		VJP1230T	CONNECTOR (MALE)	1	
P2002		VJP1236T	CONNECTOR (MALE)	1	
P2003		VJP3078	CONNECTOR (MALE)	1	
P2004		VJP3083	CONNECTOR (MALE)	1	
P2201,02		VJR0477	PACK PIN	2	
P6001-03		VJS2123	CONNECTOR (FEMALE)	3	
P6004		VJP3078	CONNECTOR (MALE)	1	
P6005		VJP3079	CONNECTOR (MALE)	1	
P6006		VJP1232T	CONNECTOR (MALE)	1	
P6007		VJS2650A0042	CONNECTOR (FEMALE)	1	
P6008		VJP1235T	CONNECTOR (MALE)	1	
P6009		VJP3079	CONNECTOR (MALE)	1	
P6010		VJP1230G	CONNECTOR (MALE)	1	
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Q6005,06		MSD601-R	TRANSISTOR	2	<R>
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QR2005-07		MRN1404
QR2012		MRN2404
QR6001		MRN1403
QR6002,03		MRN1404
QR6004		DTA143XK
QR6006		MRN1402
QR6007		MRN1404
QR6008		MRN2404
QR6009		MRN2402
QR6010		MRN1404
QR6011		MRN2404
QR6012		MRN1403
QR6013		MRN1404
QR6014		UN2215
QR6015-18		MRN1404
QR6019,20		MRN2402
QR6021-24		MRN1404
QR6025		MRN2404
QR6026-30		MRN1404
R1901		ERQ12HJ3R9
R1902		ERJ6GEYJ681
R1903		ERJ6GEYJ563
R1904,05		ERJ6GEYJ154
R1906		ERX12SJR82
R1907		ERJ6GEYJ391
R1908		ERJ6GEYJ182
R1909		ERX12SJR82
R1910		ERJ6GEYJ391
R1911		ERJ6GEYJ182
R2001		ERJ6GEYJ102
R2002		ERJ6GEYJ104
R2003		ERJ6GEYJ102
R2004		ERJ6GEYJ222
R2005		ERJ6GEYJ471
R2006		ERJ6GEYJ154
R2007		ERJ6GEYJ102
R2008		ERJ6GEYJ103
R2013-15		ERJ6GEYJ223
R2016		ERJ6GEYJ272
R2017,18		ERJ6GEYJ332
R2019		ERJ6GEYJ224
R2020		ERJ6GEYJ392
R2021		ERJ6GEYJ103
R2022		ERJ6GEYJ224
R2024		ERJ6GEYJ392
R2025,26		ERJ6GEYJ103
R2027		ERJ6GEYJ821
R2029		ERJ6GEYJ103
R2030		ERJ6GEYJ104
R2031		ERJ6GEYJ102
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R2037		ERJ6GEYJ822
R2038		ERJ6GEYJ102
R2039		ERJ6GEYJ474
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R2041		ERJ6GEYJ332
R2042		ERJ6GEYJ103
R2043		ERJ6GEYJ333
R2044,45		ERJ6GEYJ102
R2046,47		ERJ6GEYJ332
R2048		ERJ6GEYJ222
R2049		ERJ6GEYJ332
R2050		ERJ6GEYJ474
R2051		ERJ6GEYJ102
R2054		ERJ6GEYJ103

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C6044-46	ECUM1H271KBN	C.CAPACITOR CH 50V 270P	3	
C6048	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6049,50	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6051	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6052	ECUM1H272KBN	C.CAPACITOR CH 50V 2700P	1	
C6053	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6054	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C6056	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6057	ECEA1ASS332	E.CAPACITOR 10V 3300U	1	
C6059,60	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C6061	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
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IC2018,19	TC7S02F	IC	2	<R>
IC2020	TC4W53F	IC	1	<R>
IC2021	M50927-531SP	IC	1	<R>
IC2022	TC7S08F	IC	1	<R>
IC6001	MC14093BF	IC	1	<R>
IC6002	MN1280R	IC	1	<R>
IC6003	LM339NS	IC	1	<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC6004	MN188166VTST	IC	1	<R>
IC6005	M54649L	IC	1	<R>
IC6006	MN4019BS	IC	1	<R>
IC6007	LM393PS	IC	1	<R>
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IC6009	AN78M12	IC	1	<R>
IC6010	MN4019BS	IC	1	<R>
IC6011	LM339NS	IC	1	<R>
IC6012	MN1280R	IC	1	<R>
J2001,02	ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	2	
J2004-08	ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	5	
J2010	ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	1	
J2012	ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	1	
J6003,04	ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	2	
L1901,02	ELC10E014	COIL	2	
L1903	VLQ0460	COIL	1	
L2001	VLQ0460	COIL	1	
L2002	VLQEL05K102J	COIL	1	
L2003-05	VLQ0460	COIL	3	
L2006-10	VLQEL05K221J	COIL	5	
L2011	VLQEL05K470J	COIL	1	
L2012-14	VLQ0460	COIL	3	
L6001	VLQEL05K471J	COIL	1	
L6002	VLQEL05K150J	COIL	1	
L6003-06	VLQEL05K221J	COIL	4	
L6007	VLQ0460	COIL	1	
P2001	VJP1230T	CONNECTOR (MALE)	1	
P2002	VJP1236T	CONNECTOR (MALE)	1	
P2003	VJP3078	CONNECTOR (MALE)	1	
P2004	VJP3083	CONNECTOR (MALE)	1	
P2201,02	VJR0477	PACK PIN	2	
P6001-03	VJS2123	CONNECTOR (FEMALE)	3	
P6004	VJP3078	CONNECTOR (MALE)	1	
P6005	VJP3079	CONNECTOR (MALE)	1	
P6006	VJP1232T	CONNECTOR (MALE)	1	
P6007	VJS2650A004Z	CONNECTOR (FEMALE)	1	
P6008	VJP1235T	CONNECTOR (MALE)	1	
P6009	VJP3079	CONNECTOR (MALE)	1	
P6010	VJP1230G	CONNECTOR (MALE)	1	
P6011	VJP3078	CONNECTOR (MALE)	1	
P6012	VJP3080	CONNECTOR (MALE)	1	
Q1901	2SD1275	TRANSISTOR	1	<R>
Q1902,03	2SB772	TRANSISTOR	2	<R>
Q2001	2SD1275	TRANSISTOR	1	<R>
Q2004	MSD601-R	TRANSISTOR	1	<R>
Q2005	MSC2295-B	TRANSISTOR	1	<R>
Q2006-08	MSD601-R	TRANSISTOR	3	<R>
Q2010,11	MSD601-R	TRANSISTOR	2	<R>
Q6001	2SD638	TRANSISTOR	1	<R>
Q6002	MSB710-R	TRANSISTOR	1	<R>
Q6003,04	2SB819	TRANSISTOR	2	<R>
Q6005,06	MSD601-R	TRANSISTOR	2	<R>
Q6007	2SD636-R	TRANSISTOR	1	<R>
Q6009	MSB710-R	TRANSISTOR	1	<R>
Q6010-12	MSD601-R	TRANSISTOR	3	<R>
Q6013	2SB819	TRANSISTOR	1	<R>
Q6014,15	MSD601-R	TRANSISTOR	2	<R>
Q6016	2SB941	TRANSISTOR	1	<R>
Q6017	2SD1273	TRANSISTOR	1	<R>
Q6018	MSD601-R	TRANSISTOR	1	<R>
Q6024	2SD1273	TRANSISTOR	1	<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR2001	MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR2003	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2005-07	MRN1404	TRANSISTOR-RESISTOR	3	<R>
QR2012	MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR6001	MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR6002,03	MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR6004	DTA143XK	TRANSISTOR-RESISTOR	1	<R>
QR6006	MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR6007	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR6008	MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR6009	MRN2402	TRANSISTOR-RESISTOR	1	<R>
QR6010	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR6011	MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR6012	MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR6013	MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR6014	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR6015-18	MRN1404	TRANSISTOR-RESISTOR	4	<R>
QR6019,20	MRN2402	TRANSISTOR-RESISTOR	2	<R>
QR6021-24	MRN1404	TRANSISTOR-RESISTOR	4	<R>
QR6025	MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR6026-30	MRN1404	TRANSISTOR-RESISTOR	5	<R>
R1901	ERQ12HJ3R9	F.RESISTOR 1/2W 3.9	1	
R1902	ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R1903	ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	1	
R1904,05	ERJ6GEYJ154	M.RESISTOR CH1/16W 150K	2	
R1906	ERX12SJR82	M.RESISTOR 1/2W 0.82	1	
R1907	ERJ6GEYJ391	M.RESISTOR CH1/16W 390	1	
R1908	ERJ6GEYJ182	M.RESISTOR CH1/16W 1.8K	1	
R1909	ERX12SJR82	M.RESISTOR 1/2W 0.82	1	
R1910	ERJ6GEYJ391	M.RESISTOR CH1/16W 390	1	
R1911	ERJ6GEYJ182	M.RESISTOR CH1/16W 1.8K	1	
R2001	ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2002	ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2003	ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2004	ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R2005	ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R2006	ERJ6GEYJ154	M.RESISTOR CH1/16W 150K	1	
R2007	ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2008	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2013-15	ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	3	
R2016	ERJ6GEYJ272	M.RESISTOR CH1/16W 2.7K	1	
R2017,18	ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	2	
R2019	ERJ6GEYJ224	M.RESISTOR CH1/16W 220K	1	
R2020	ERJ6GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R2021	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2022	ERJ6GEYJ224	M.RESISTOR CH1/16W 220K	1	
R2024	ERJ6GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R2025,26	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R2027	ERJ6GEYJ821	M.RESISTOR CH1/16W 820	1	
R2029	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2030	ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2031	ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2032	ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2033	ERJ6GEYG103	M.RESISTOR CH1/16W 10K	1	
R2034	ERJ6GEYG241	M.RESISTOR CH1/16W 240	1	
R2035	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2036	ERJ6GEYJ182	M.RESISTOR CH1/16W 1.8K	1	
R2037	ERJ6GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R2038	ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2039	ERJ6GEYJ474	M.RESISTOR CH1/16W 470K	1	
R2040	ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2041	ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R2042	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2043	ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R2044,45	ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	2	
R2046,47	ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	2	
R2048	ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R2049	ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R2050	ERJ6GEYJ474	M.RESISTOR CH1/16W 470K	1	
R2051	ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2054	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2056	ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2057	ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R2058	ERJ6GEYJ151	M.RESISTOR CH1/16W 150	1	
R2059	ERJ6GEYJ821	M.RESISTOR CH1/16W 820	1	
R2060	ERJ6GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R2061,62	ERJ6GEYJ392	M.RESISTOR CH1/16W 3.9K	2	
R2063	ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2064	ERJ6GEYJ683	M.RESISTOR CH1/16W 68K	1	
R2065	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2066	ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R2067	ERJ6GEYJ122	M.RESISTOR CH1/16W 1.2K	1	
R2068	ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R2069	ERJ6GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R2070	ERJ6GEYJ105	M.RESISTOR CH1/16W 1M	1	
R2071,72	ERJ6GEYJ562	M.RESISTOR CH1/16W 5.6K	2	
R2073	ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	1	
R2088	ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R2089	ERJ6GEYG752	M.RESISTOR CH1/16W 7.5K	1	
R2090	ERJ6GEYJ561	M.RESISTOR CH1/16W 560	1	
R2093	ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2094,95	ERJ6GEYJ330	M.RESISTOR CH1/16W 33	2	
R2096	ERX12SJR56	M.RESISTOR 1/2W 0.56	1	
R2097	ERJ6GEYJ330	M.RESISTOR CH1/16W 33	1	
R2098	ERJ6GEYJ680	M.RESISTOR CH1/16W 68	1	
R2099-01	ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2102,03	ERJ6GEYJ273	M.RESISTOR CH1/16W 27K	2	
R2104	ERJ6GEYJ122	M.RESISTOR CH1/16W 1.2K	1	
R2105	ERJ6GEYJ105	M.RESISTOR CH1/16W 1M	1	
R2106	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2107	ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2108,09	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R2110	ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R2112	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2113	ERJ6GEYJ821	M.RESISTOR CH1/16W 820	1	
R2116	ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2119	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2120	ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R2121	ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2122	ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2123	ERJ6GEYJ124	M.RESISTOR CH1/16W 120K	1	
R2125	ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	1	
R2127	ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2128-30	ERJ6GEYG223	M.RESISTOR CH1/16W 22K	3	
R2131	ERJ6GEYG303	M.RESISTOR CH1/16W 30K	1	
R2132	ERJ6GEYG224	M.RESISTOR CH1/16W 220K	1	
R2133	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2134,35	ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	2	
R2136	ERJ6GEYJ821	M.RESISTOR CH1/16W 820	1	
R2137	ERJ6GEYJ273	M.RESISTOR CH1/16W 27K	1	
R2138	ERJ6GEYJ124	M.RESISTOR CH1/16W 120K	1	
R2139	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2140	ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2141	ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R2142	ERJ6GEYJ474	M.RESISTOR CH1/16W 470K	1	
R2143,44	ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	2	
R2145-47	ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	3	
R2148,49	ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	2	
R2151	ERJ6GEYJ330	M.RESISTOR CH1/16W 33	1	
R2152	ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2153	ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2154	ERJ6GEYJ105	M.RESISTOR CH1/16W 1M	1	
R2155	ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	1	
R6001	ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R6004	ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R6005	ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6006	ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6007	ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6008	ERDS1TJ153	C.RESISTOR 1/2W 15K	1	
R6009	ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R6010,11	ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6012	ERJ6GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R6013	ERJ6GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R6014	ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6015	ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6016	ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6017		ERJ6GEYJ683	M.RESISTOR CH1/16W 68K	1	
R6018		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R6019,20		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6021		ERJ6GEYJ683	M.RESISTOR CH1/16W 68K	1	
R6022		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6023		ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	1	
R6024		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6025		ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6026,27		ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	2	
R6028		ERJ6GEYJ273	M.RESISTOR CH1/16W 27K	1	
R6029		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6030		ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6031		ERJ6GEYJ273	M.RESISTOR CH1/16W 27K	1	
R6032		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6033		ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	1	
R6034		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6035		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R6036		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6037		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6038		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6039		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6040		ERJ6GEYJ105	M.RESISTOR CH1/16W 1M	1	
R6041		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6042		ERJ6GEYJ682	M.RESISTOR CH1/16W 6.8K	1	
R6043,44		ERJ6GEYJ821	M.RESISTOR CH1/16W 820	2	
R6045		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6046		ERJ6GEYJ183	M.RESISTOR CH1/16W 18K	1	
R6047		ERJ6GEYJ272	M.RESISTOR CH1/16W 2.7K	1	
R6048,49		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6050		ERJ6GEYJ272	M.RESISTOR CH1/16W 2.7K	1	
R6051		ERJ6GEYJ183	M.RESISTOR CH1/16W 18K	1	
R6052		ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R6053		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R6054		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6055-58		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	4	
R6060		ERJ6GEYJ181	M.RESISTOR CH1/16W 180	1	
R6061		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6062		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6063		ERJ6GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R6064		ERJ6GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R6065,66		ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	2	
R6067-73		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	7	
R6074,75		ERJ6GEYJ682	M.RESISTOR CH1/16W 6.8K	2	
R6076		ERJ6GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R6077		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R6078		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6079		ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R6080		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R6081		ERJ6GEYJ683	M.RESISTOR CH1/16W 68K	1	
R6082,83		ERG1SJ300	M.RESISTOR 1W 30	2	
R6084		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6085		ERJ6GEYJ682	M.RESISTOR CH1/16W 6.8K	1	
R6086,87		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	2	
R6088		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6089		ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R6090		ERDS1TJ2R2	C.RESISTOR 1/2W 2.2	1	
R6091,92		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6093		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6094		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6095-98		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	4	
R6099		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R6100		ERJ6GEYJ183	M.RESISTOR CH1/16W 18K	1	
R6101		ERJ6GEYJ474	M.RESISTOR CH1/16W 470K	1	
R6102		ERJ6GEYJ121	M.RESISTOR CH1/16W 120	1	
R6103		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6104,05		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	2	
R6106		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R6109		ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R6110		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6114		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R6115		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6116		ERJ6GEYJ823	M.RESISTOR CH1/16W 82K	1	
R6117		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6118		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6119-27		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	9	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6131		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6132		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6133		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R6134		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6135		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6136		ERJ6GEYJ101	M.RESISTOR CH1/16W 100	1	
R6137		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6138		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R6139		ERJ6GEYJ101	M.RESISTOR CH1/16W 100	1	
R6140		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R6141		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6144		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6151		ERJ6GEYJ330	M.RESISTOR CH1/16W 33	1	
SW6001		VSS0240	SWITCH	1	<R>
T6001		EIQ7QF002B	TRANSFORMER	1	
VR2001		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2003		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2201		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2202		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2203		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2204-06		EVMF6SA00B15	V.RESISTOR 100K	3	
VR2207		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2208		EVMF6SA00B23	V.RESISTOR 2K	1	
X1901		VSX0136	CRYSTAL OSCILLATOR	1	
X2001		VSX0296	CRYSTAL OSCILLATOR	1	
X2002		VSX0086	CRYSTAL OSCILLATOR	1	
X6001		VSX0230	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMC0075	HEAT SINK ANGLE	1	
		VMX0985	SPACER	2	
		VMZ0960	HEAT SINK BARRIER	1	
		VSC1068	HEAT SINK	1	
		VSC1689	HEAT SINK	1	
		VSC2761	SHIELD CASE (TOP)	1	
		VSC2763	SHIELD CASE (BOTTOM)	1	
		VSC3427	SHIELD CASE (MAIN)	1	
		XTV3+8F	SCREW	1	
		VKC0271	HINGE CLIP	2	
	■	VEP06848C	P.C.BOARD W/COMPONENT SERVO & SYSTEM CONTROL		FOR AG-7150E/B
BAT6001		VSB0173	BATTRY	1	<R>
C1901,02		ECEA1EU331	E.CAPACITOR 25V 330U	2	
C1903		ECEA1VKA470	E.CAPACITOR 35V 47U	1	
C1904		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1905		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1906		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C1907		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	1	
C1908-10		ECEA1HKA010	E.CAPACITOR 50V 1U	3	
C1911		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1912,13		ECEA1EU221	E.CAPACITOR 25V 220U	2	
C1914		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1915		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2001		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2002		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2003		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C2004		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2005,06		ECEA1CKA470	E.CAPACITOR 16V 47U	2	
C2007		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2008		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C2009		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C2010		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2011		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2015,16		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C2017		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2018		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2019		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2020		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2022,23		ECQV1H564JZ	P.CAPACITOR 50V 0.56U	2	
C2027		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2028		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C2029		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2030		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2031		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C2032		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C2033		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2034		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2035		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2036		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C2037,38		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C2039		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2040,41		ECEA1CKA330	E.CAPACITOR 16V 33U	2	
C2042		ECEA10Z47	E.CAPACITOR 10V	1	
C2043,44		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	2	
C2045,46		ECQB1H472JF	P.CAPACITOR 50V 4700P	2	
C2047		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C2048		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C2049		ECUM1H123KBN	C.CAPACITOR CH 50V 0.012U	1	
C2050		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2051		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2052		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2053		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2054		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2055		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2056		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2057,58		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	2	
C2059		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2060		ECEA1EU101	E.CAPACITOR 25V 100U	1	
C2061		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2062-64		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	3	
C2065		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C2066-68		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	3	
C2069		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2070		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C2071		ECEA1EU101	E.CAPACITOR 25V 100U	1	
C2072		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C2073		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2074-76		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2077-79		ECQB1H332JF	P.CAPACITOR 50V 3300P	3	
C2080-82		ECQB1H333JF	P.CAPACITOR 50V 0.033U	3	
C2083		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2084		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2085,86		ECEA1EU101	E.CAPACITOR 25V 100U	2	
C2087		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2088		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2089		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2090		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2091		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2092		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C2093		ECEA1CKA330	E.CAPACITOR 16V 33U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2094,95		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2096,97		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	2	
C2098,99		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2100-06		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	7	
C2107		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2108,09		ECQB1H104JF	P.CAPACITOR 50V 0.1U	2	
C2110		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C2111		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2113		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2114		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2115		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C2116,17		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	2	
C2118		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2121		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2122		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2124-26		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2127		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2128,29		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C2130-32		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C6001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6002		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C6003		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C6004-06		ECQB1H104JF	P.CAPACITOR 50V 0.1U	3	
C6007		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C6008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6009		ECEA1CU102B	E.CAPACITOR 16V 1000U	1	
C6010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6011		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C6012		ECEA1CU102B	E.CAPACITOR 16V 1000U	1	
C6014		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C6015		ECEA1EKA470	E.CAPACITOR 25V 47U	1	
C6016,17		ECQB1H104JF	P.CAPACITOR 50V 0.1U	2	
C6018		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C6019		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C6020		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C6021		ECEA1CN101	E.CAPACITOR 16V 100U	1	
C6022		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C6023		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C6024		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C6025,26		ECEA1ASS332	E.CAPACITOR 10V 3300U	2	
C6027		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C6028		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C6029		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C6030		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C6031		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6032		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6033,34		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C6035,36		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6037,38		ECEA1CKA470	E.CAPACITOR 16V 47U	2	
C6039		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6040		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6041		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6043		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C6044-46		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	3	
C6048		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6049,50		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6051		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6052		ECUM1H272KBN	C.CAPACITOR CH 50V 2700P	1	
C6053		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6054		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C6056		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6057		ECEA1ASS332	E.CAPACITOR 10V 3300U	1	
C6059,60		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C6061		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
D1901		MA4100M	DIODE	1	<R>
D1902		MA4110M	DIODE	1	<R>
D1903,04		11EQS04	DIODE	2	<R>
D1905		MA151K	DIODE	1	<R>
D2001-04		MA151K	DIODE	4	<R>
D2005		MA723VT	DIODE	1	<R>
D2006		MA151K	DIODE	1	<R>
D2008		MA151K	DIODE	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D2009		MA151WA	DIODE	1	<R>
D2010		MA4180M	DIODE	1	<R>
D2011,12		MA151K	DIODE	2	<R>
D2013		MA4130L	DIODE	1	<R>
D2014		MA151WA	DIODE	1	<R>
D2015,16		MA151K	DIODE	2	<R>
D2018-20		11EQS04	DIODE	3	<R>
D2021		MA3030-L	DIODE	1	<R>
D2022		MA719	DIODE	1	<R>
D2024		MA4062M	DIODE	1	<R>
D2025		MA151WK	DIODE	1	<R>
D6001		11EQS04	DIODE	1	<R>
D6002		MA170	DIODE	1	<R>
D6003,04		MA151K	DIODE	2	<R>
D6005		10E1	DIODE	1	<R>
D6006		MA151WA	DIODE	1	<R>
D6007,08		MA151K	DIODE	2	<R>
D6009		11EQS04	DIODE	1	<R>
D6010-12		MA151K	DIODE	3	<R>
D6013		10E1	DIODE	1	<R>
D6014		MA151K	DIODE	1	<R>
D6017,18		MA151K	DIODE	2	<R>
D6019,20		11EQS04	DIODE	2	<R>
D6021		MA151K	DIODE	1	<R>
D6022		11EQS04	DIODE	1	<R>
D6023		MA151K	DIODE	1	<R>
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IC2001		MN6742VCRQ	IC	1	<R>
IC2002		MC14053BF	IC	1	<R>
IC2003		AN3726K	IC	1	<R>
IC2005		NJM2233BMA	IC	1	<R>
IC2008		LM358PS	IC	1	<R>
IC2009		BA6435S	IC	1	<R>
IC2010		MN1280R	IC	1	<R>
IC2011		AN78L05	IC	1	<R>
IC2012		AN3815K	IC	1	<R>
IC2013		LM393PS	IC	1	<R>
IC2014		LM358PS	IC	1	<R>
IC2015		MC14013BF	IC	1	<R>
IC2016,17		LM393PS	IC	2	<R>
IC2018,19		TC7S02F	IC	2	<R>
IC2020		TC4W53F	IC	1	<R>
IC2021		M50927-531SP	IC	1	<R>
IC2022		TC7S08F	IC	1	<R>
IC6001		MC14093BF	IC	1	<R>
IC6002		MN1280R	IC	1	<R>
IC6003		LM339NS	IC	1	<R>
IC6004		MN188166VTST	IC	1	<R>
IC6005		M54649L	IC	1	<R>
IC6006		MN4019BS	IC	1	<R>
IC6007		LM393PS	IC	1	<R>
IC6008		MN1280R	IC	1	<R>
IC6009		AN78M12	IC	1	<R>
IC6010		MN4019BS	IC	1	<R>
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IC6012		MN1280R	IC	1	<R>
J2001,02		ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	2	
J2004-08		ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	5	
J2010		ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	1	
J2012		ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	1	
J6003,04		ERJ6GEYOR00	M.RESISTOR CH 1/10W 0	2	
L1901,02		ELC10E014	COIL	2	
L1903		VLQ0460	COIL	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L2001		VLQ0460	COIL	1	
L2002		VLQEL05K102J	COIL	1	
L2003-05		VLQ0460	COIL	3	
L2006-10		VLQEL05K221J	COIL	5	
L2011		VLQEL05K470J	COIL	1	
L2012-14		VLQ0460	COIL	3	
L6001		VLQEL05K471J	COIL	1	
L6002		VLQEL05K150J	COIL	1	
L6003-06		VLQEL05K221J	COIL	4	
L6007		VLQ0460	COIL	1	
P2001		VJP1230T	CONNECTOR (MALE)	1	
P2002		VJP1236T	CONNECTOR (MALE)	1	
P2003		VJP3078	CONNECTOR (MALE)	1	
P2004		VJP3083	CONNECTOR (MALE)	1	
P2201,02		VJR0477	CONNECTOR	2	
P6001-03		VJS2123	CONNECTOR (FEMALE)	3	
P6004		VJP3078	CONNECTOR (MALE)	1	
P6005		VJP3079	CONNECTOR (MALE)	1	
P6006		VJP1232T	CONNECTOR (MALE)	1	
P6007		VJS2650A004Z	CONNECTOR (FEMALE)	1	
P6008		VJP1235T	CONNECTOR (MALE)	1	
P6009		VJP3079	CONNECTOR (MALE)	1	
P6010		VJP1230G	CONNECTOR (MALE)	1	
P6011		VJP3078	CONNECTOR (MALE)	1	
P6012		VJP3080	CONNECTOR (MALE)	1	
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Q2001		2SD1275	TRANSISTOR	1	<R>
Q2004		MSD601-R	TRANSISTOR	1	<R>
Q2005		MSC2295-B	TRANSISTOR	1	<R>
Q2006-08		MSD601-R	TRANSISTOR	3	<R>
Q2010,11		MSD601-R	TRANSISTOR	2	<R>
Q6001		2SD638	TRANSISTOR	1	<R>
Q6002		MSB710-R	TRANSISTOR	1	<R>
Q6003,04		2SB819	TRANSISTOR	2	<R>
Q6005,06		MSD601-R	TRANSISTOR	2	<R>
Q6007		2SD636-R	TRANSISTOR	1	<R>
Q6009		MSB710-R	TRANSISTOR	1	<R>
Q6010-12		MSD601-R	TRANSISTOR	3	<R>
Q6013		2SB819	TRANSISTOR	1	<R>
Q6014,15		MSD601-R	TRANSISTOR	2	<R>
Q6016		2SB941	TRANSISTOR	1	<R>
Q6017		2SD1273	TRANSISTOR	1	<R>
Q6018		MSD601-R	TRANSISTOR	1	<R>
Q6024		2SD1273	TRANSISTOR	1	<R>
QR2001		MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR2003		MRN1404	TRANSISTOR-RESISTOR	1	<R>
QR2005-07		MRN1404	TRANSISTOR-RESISTOR	3	<R>
QR2012		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR6001		MRN1403	TRANSISTOR-RESISTOR	1	<R>
QR6002,03		MRN1404	TRANSISTOR-RESISTOR	2	<R>
QR6004		DTA143XK	TRANSISTOR-RESISTOR	1	<R>
QR6006		MRN1402	TRANSISTOR-RESISTOR	1	<R>
QR6007		MRN1404	TRANSISTOR-RESISTOR	1	<R>
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QR6014		UN2215	TRANSISTOR-RESISTOR	1	<R>
QR6015-18		MRN1404	TRANSISTOR-RESISTOR	4	<R>
QR6019,20		MRN2402	TRANSISTOR-RESISTOR	2	<R>
QR6021-24		MRN1404	TRANSISTOR-RESISTOR	4	<R>
QR6025		MRN2404	TRANSISTOR-RESISTOR	1	<R>
QR6026-30		MRN1404	TRANSISTOR-RESISTOR	5	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R1901		ERQ12HJ3R9	F.RESISTOR 1/2W 3.9	1	
R1902		ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R1903		ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	1	
R1904,05		ERJ6GEYJ154	M.RESISTOR CH1/16W 150K	2	
R1906		ERX12SJR82	M.RESISTOR 1/2W 0.82	1	
R1907		ERJ6GEYJ391	M.RESISTOR CH1/16W 390	1	
R1908		ERJ6GEYJ182	M.RESISTOR CH1/16W 1.8K	1	
R1909		ERX12SJR82	M.RESISTOR 1/2W 0.82	1	
R1910		ERJ6GEYJ391	M.RESISTOR CH1/16W 390	1	
R1911		ERJ6GEYJ182	M.RESISTOR CH1/16W 1.8K	1	
R2001		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2002		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2003		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2004		ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R2005		ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R2006		ERJ6GEYJ154	M.RESISTOR CH1/16W 150K	1	
R2007		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2008		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2013-15		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	3	
R2016		ERJ6GEYJ272	M.RESISTOR CH1/16W 2.7K	1	
R2017,18		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	2	
R2019		ERJ6GEYJ224	M.RESISTOR CH1/16W 220K	1	
R2020		ERJ6GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R2021		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2022		ERJ6GEYJ224	M.RESISTOR CH1/16W 220K	1	
R2024		ERJ6GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R2025,26		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R2027		ERJ6GEYJ821	M.RESISTOR CH1/16W 820	1	
R2029		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2030		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2031		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2032		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2033		ERJ6GEYG103	M.RESISTOR CH1/16W 10K	1	
R2034		ERJ6GEYG241	M.RESISTOR CH1/16W 240	1	
R2035		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2036		ERJ6GEYJ182	M.RESISTOR CH1/16W 1.8K	1	
R2037		ERJ6GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R2038		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2039		ERJ6GEYJ474	M.RESISTOR CH1/16W 470K	1	
R2040		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2041		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R2042		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2043		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R2044,45		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	2	
R2046,47		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	2	
R2048		ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R2049		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R2050		ERJ6GEYJ474	M.RESISTOR CH1/16W 470K	1	
R2051		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2054		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2056		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2057		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R2058		ERJ6GEYJ151	M.RESISTOR CH1/16W 150	1	
R2059		ERJ6GEYJ821	M.RESISTOR CH1/16W 820	1	
R2060		ERJ6GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R2061,62		ERJ6GEYJ392	M.RESISTOR CH1/16W 3.9K	2	
R2063		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2064		ERJ6GEYJ683	M.RESISTOR CH1/16W 68K	1	
R2065		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2066		ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R2067		ERJ6GEYJ122	M.RESISTOR CH1/16W 1.2K	1	
R2068		ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R2069		ERJ6GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R2070		ERJ6GEYJ105	M.RESISTOR CH1/16W 1M	1	
R2071,72		ERJ6GEYJ562	M.RESISTOR CH1/16W 5.6K	2	
R2073		ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	1	
R2088		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R2089		ERJ6GEYG752	M.RESISTOR CH1/16W 7.5K	1	
R2090		ERJ6GEYJ561	M.RESISTOR CH1/16W 560	1	
R2093		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2094,95		ERJ6GEYJ330	M.RESISTOR CH1/16W 33	2	
R2096		ERX12SJR56	M.RESISTOR 1/2W 0.56	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2097		ERJ6GEYJ330	M.RESISTOR CH1/16W 33	1	
R2098		ERJ6GEYJ680	M.RESISTOR CH1/16W 68	1	
R2099-01		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2102,03		ERJ6GEYJ273	M.RESISTOR CH1/16W 27K	2	
R2104		ERJ6GEYJ122	M.RESISTOR CH1/16W 1.2K	1	
R2105		ERJ6GEYJ105	M.RESISTOR CH1/16W 1M	1	
R2106		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2107		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2108,09		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R2110		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R2112		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2113		ERJ6GEYJ821	M.RESISTOR CH1/16W 820	1	
R2116		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2119		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2120		ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R2121		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2122		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2123		ERJ6GEYJ124	M.RESISTOR CH1/16W 120K	1	
R2125		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R2127		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2128-30		ERJ6GEYG223	M.RESISTOR CH1/16W 22K	3	
R2131		ERJ6GEYG303	M.RESISTOR CH1/16W 30K	1	
R2132		ERJ6GEYG224	M.RESISTOR CH1/16W 220K	1	
R2133		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2134,35		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	2	
R2136		ERJ6GEYJ821	M.RESISTOR CH1/16W 820	1	
R2137		ERJ6GEYJ273	M.RESISTOR CH1/16W 27K	1	
R2138		ERJ6GEYJ124	M.RESISTOR CH1/16W 120K	1	
R2139		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2140		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2141		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R2142		ERJ6GEYJ474	M.RESISTOR CH1/16W 470K	1	
R2143,44		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	2	
R2145-47		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	3	
R2148,49		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	2	
R2151		ERJ6GEYJ330	M.RESISTOR CH1/16W 33	1	
R2152		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2153		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2154		ERJ6GEYJ105	M.RESISTOR CH1/16W 1M	1	
R2155		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6001		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R6004		ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R6005		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6006		ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6007		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6008		ERDS1TJ153	C.RESISTOR 1/2W 15K	1	
R6009		ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R6010,11		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6012		ERJ6GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R6013		ERJ6GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R6014		ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6015		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6016		ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6017		ERJ6GEYJ683	M.RESISTOR CH1/16W 68K	1	
R6018		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R6019,20		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6021		ERJ6GEYJ683	M.RESISTOR CH1/16W 68K	1	
R6022		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6023		ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	1	
R6024		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6025		ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6026,27		ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	2	
R6028		ERJ6GEYJ273	M.RESISTOR CH1/16W 27K	1	
R6029		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6030		ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6031		ERJ6GEYJ273	M.RESISTOR CH1/16W 27K	1	
R6032		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6033		ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	1	
R6034		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6035		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R6036		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6037		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6038		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6039		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6040		ERJ6GEYJ105	M.RESISTOR CH1/16W 1M	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6041		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6042		ERJ6GEYJ682	M.RESISTOR CH1/16W 6.8K	1	
R6043,44		ERJ6GEYJ821	M.RESISTOR CH1/16W 820	2	
R6045		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6046		ERJ6GEYJ183	M.RESISTOR CH1/16W 18K	1	
R6047		ERJ6GEYJ272	M.RESISTOR CH1/16W 2.7K	1	
R6048,49		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6050		ERJ6GEYJ272	M.RESISTOR CH1/16W 2.7K	1	
R6051		ERJ6GEYJ183	M.RESISTOR CH1/16W 18K	1	
R6052		ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R6053		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R6054		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6055-58		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	4	
R6060		ERJ6GEYJ181	M.RESISTOR CH1/16W 180	1	
R6061		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6062		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6063		ERJ6GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R6064		ERJ6GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R6065,66		ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	2	
R6067-73		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	7	
R6074,75		ERJ6GEYJ682	M.RESISTOR CH1/16W 6.8K	2	
R6076		ERJ6GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R6077		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R6078		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6079		ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R6080		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R6081		ERJ6GEYJ683	M.RESISTOR CH1/16W 68K	1	
R6082,83		ERG1SJ300	M.RESISTOR 1W 30	2	
R6084		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6085		ERJ6GEYJ682	M.RESISTOR CH1/16W 6.8K	1	
R6086,87		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	2	
R6088		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6089		ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R6090		ERDS1TJ2R2	C.RESISTOR 1/2W 2.2	1	
R6091,92		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6093		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6094		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6095-98		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	4	
R6099		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R6100		ERJ6GEYJ183	M.RESISTOR CH1/16W 18K	1	
R6101		ERJ6GEYJ474	M.RESISTOR CH1/16W 470K	1	
R6102		ERJ6GEYJ121	M.RESISTOR CH1/16W 120	1	
R6103		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6104,05		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	2	
R6106		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R6109		ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R6110		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6114		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R6115		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6116		ERJ6GEYJ823	M.RESISTOR CH1/16W 82K	1	
R6117		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6118		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6119-27		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	9	
R6131		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6132		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6133		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R6134		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6135		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6136		ERJ6GEYJ101	M.RESISTOR CH1/16W 100	1	
R6137		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6138		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R6139		ERJ6GEYJ101	M.RESISTOR CH1/16W 100	1	
R6140		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R6141		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6144		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6151		ERJ6GEYJ330	M.RESISTOR CH1/16W 33	1	
SW6001		VSS0240	SWITCH	1	<R>
T6001		EIQ7QF002B	TRANSFORMER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR2001		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2003		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2201		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2202		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2203		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2204-06		EVMF6SA00B15	V.RESISTOR 100K	3	
VR2207		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2208		EVMF6SA00B23	V.RESISTOR 2K	1	
X1901		VSX0136	CRYSTAL OSCILLATOR	1	
X2001		VSX0296	CRYSTAL OSCILLATOR	1	
X2002		VSX0086	CRYSTAL OSCILLATOR	1	
X6001		VSX0230	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMC0075	HEAT SINK ANGLE	1	
		VMX0985	SPACER	2	
		VMZ0960	HEAT SINK BARRIER	1	
		VSC1068	HEAT SINK	1	
		VSC1689	HEAT SINK	1	
		VSC2761	SHIELD CASE (TOP)	1	
		VSC2763	SHIELD CASE (BOTTOM)	1	
		VSC3427	SHIELD CASE (MAIN)	1	
		XTV3+8F	SCREW	1	
		VKC0271	HINGE CLIP	2	
	■	VEP06848D	P.C.BOARD W/COMPONENT		FOR AG-7355E/B
			SERVO & SYSTEM CONTROL		
BAT6001		VSB0173	BATTRY	1	
C1901,02		ECEA1EU331	E.CAPACITOR 25V 330U	2	
C1903		ECEA1VKA470	E.CAPACITOR 35V 47U	1	
C1904		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1905		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C1906		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C1907		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	1	
C1908-10		ECEA1HKA010	E.CAPACITOR 50V 1U	3	
C1911		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1912,13		ECEA1EU221	E.CAPACITOR 25V 220U	2	
C1914		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1915		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2001		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2002		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2003		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C2004		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2005,06		ECEA1CKA470	E.CAPACITOR 16V 47U	2	
C2007		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2008		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C2009		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C2010		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2011		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2015,16		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C2017		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2018		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2019		ECEA1CKA100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2020		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2022,23		ECQV1H564JZ	P.CAPACITOR 50V 0.56U	2	
C2027		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2028		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C2029		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2030		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2031		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C2032		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C2033		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2034		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2035		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2036		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C2037,38		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C2039		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2040,41		ECEA1CKA330	E.CAPACITOR 16V 33U	2	
C2042		ECEA10Z47	E.CAPACITOR 10V	1	
C2043,44		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	2	
C2045,46		ECQB1H472JF	P.CAPACITOR 50V 4700P	2	
C2047		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C2048		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C2049		ECUM1H123KBN	C.CAPACITOR CH 50V 0.012U	1	
C2050		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2051		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2052		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2053		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2054		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2055		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2056		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2057,58		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	2	
C2059		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2060		ECEA1EU101	E.CAPACITOR 25V 100U	1	
C2061		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2062-64		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	3	
C2065		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C2066-68		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	3	
C2069		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2070		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C2071		ECEA1EU101	E.CAPACITOR 25V 100U	1	
C2072		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C2073		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2074-76		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2077-79		ECQB1H332JF	P.CAPACITOR 50V 3300P	3	
C2080-82		ECQB1H333JF	P.CAPACITOR 50V 0.033U	3	
C2083		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2084		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2085,86		ECEA1EU101	E.CAPACITOR 25V 100U	2	
C2087		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2088		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2089		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2090		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2091		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2092		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C2093		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C2094,95		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2096,97		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	2	
C2098,99		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2100		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C2101-05		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	5	
C2106		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C2107		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2108,09		ECQB1H104JF	P.CAPACITOR 50V 0.1U	2	
C2110		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C2111		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2113		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2114		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2115		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C2116,17		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	2	
C2118		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2121		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2122		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2124-26		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2127		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2128,29		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C2130-32		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C2150		ECKF1H561KB	C.CAPACITOR 50V 560P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6002		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C6003		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C6004-06		ECQB1H104JF	P.CAPACITOR 50V 0.1U	3	
C6007		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C6008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6009		ECEA1CU102B	E.CAPACITOR 16V 1000U	1	
C6010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6011		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C6012		ECEA1CU102	E.CAPACITOR 16V 1000U	1	
C6014		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C6015		ECEA1EKA470	E.CAPACITOR 25V 47U	1	
C6016,17		ECQB1H104JF	P.CAPACITOR 50V 0.1U	2	
C6018		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C6019		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C6020		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C6021		ECEA1CN101	E.CAPACITOR 16V 100U	1	
C6022		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C6023		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C6024		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C6025,26		ECEA1ASS332	E.CAPACITOR 10V 3300U	2	
C6027		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C6028		ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C6029		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C6030		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C6031		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6032		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6033,34		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C6035,36		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6037,38		ECEA1CKA470	E.CAPACITOR 16V 47U	2	
C6039		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6040		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6041		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6043		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C6044-46		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	3	
C6048		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6049,50		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6051		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6052		ECUM1H272KBN	C.CAPACITOR CH 50V 2700P	1	
C6053		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6054		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C6056		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6057		ECEA1ASS332	E.CAPACITOR 10V 3300U	1	
C6059,60		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
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D2001-04		MA151K	DIODE	4	<R>
D2005		MA723VT	DIODE	1	<R>
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D6010-12		MA151K	DIODE	3	<R>
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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
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D6022		11EQS04	DIODE	1	<R>
D6023		MA151K	DIODE	1	<R>
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IC2003		AN3726K	IC	1	<R>
IC2005		NJM2233BMA	IC	1	<R>
IC2008		LM358PS	IC	1	<R>
IC2009		BA6435S	IC	1	<R>
IC2010		MN1280R	IC	1	<R>
IC2011		AN78L05	IC	1	<R>
IC2012		AN3815K	IC	1	<R>
IC2013		LM393PS	IC	1	<R>
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IC2016,17		LM393PS	IC	2	<R>
IC2018,19		TC7S02F	IC	2	<R>
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IC2021		M50927-531SP	IC	1	<R>
IC2022		TC7S08F	IC	1	<R>
IC6001		MC14093BF	IC	1	<R>
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J2004-08		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
J2010		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J2012		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J6003,04		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
L1901,02		ELC10E014	COIL	2	
L1903		VLQ0460	COIL	1	
L2001		VLQ0460	COIL	1	
L2002		VLQEL05K102J	COIL	1	
L2003-05		VLQ0460	COIL	3	
L2006-10		VLQEL05K221J	COIL	5	
L2011		VLQEL05K470J	COIL	1	
L2012-14		VLQ0460	COIL	3	
L6001		VLQEL05K471J	COIL	1	
L6002		VLQEL05K150J	COIL	1	
L6003-06		VLQEL05K221J	COIL	4	
L6007		VLQ0460	COIL	1	
P2001		VJP1230T	CONNECTOR (MALE)	1	
P2002		VJP1236T	CONNECTOR (MALE)	1	
P2003		VJP3078	CONNECTOR (MALE)	1	
P2004		VJP3083	CONNECTOR (MALE)	1	
P2201,02		VJR0477	CONNECTOR	2	
P6001-03		VJS2123	CONNECTOR (FEMALE)	3	
P6004		VJP3078	CONNECTOR (MALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P6005		VJP3079	CONNECTOR (MALE)	1	
P6006		VJP1232T	CONNECTOR (MALE)	1	
P6007		VJS2650A004Z	CONNECTOR (FEMALE)	1	
P6008		VJP1235T	CONNECTOR (MALE)	1	
P6009		VJP3079	CONNECTOR (MALE)	1	
P6010		VJP1230G	CONNECTOR (MALE)	1	
P6011		VJP3078	CONNECTOR (MALE)	1	
P6012		VJP3080	CONNECTOR (MALE)	1	
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Q2004		MSD601-R	TRANSISTOR	1	<R>
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Q2006-08		MSD601-R	TRANSISTOR	3	<R>
Q2010,11		MSD601-R	TRANSISTOR	2	<R>
Q6001		2SD638	TRANSISTOR	1	<R>
Q6002		MSB710-R	TRANSISTOR	1	<R>
Q6003,04		2SB819	TRANSISTOR	2	<R>
Q6005,06		MSD601-R	TRANSISTOR	2	<R>
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Q6014,15		MSD601-R	TRANSISTOR	2	<R>
Q6016		2SB941	TRANSISTOR	1	<R>
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R1903		ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	1	
R1904,05		ERJ6GEYJ154	M.RESISTOR CH1/16W 150K	2	
R1906		ERX12SJR82	M.RESISTOR 1/2W 0.82	1	
R1907		ERJ6GEYJ391	M.RESISTOR CH1/16W 390	1	
R1908		ERJ6GEYJ182	M.RESISTOR CH1/16W 1.8K	1	
R1909		ERX12SJR82	M.RESISTOR 1/2W 0.82	1	
R1910		ERJ6GEYJ391	M.RESISTOR CH1/16W 390	1	
R1911		ERJ6GEYJ182	M.RESISTOR CH1/16W 1.8K	1	
R2001		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2002		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2003		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2004		ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R2005		ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R2006		ERJ6GEYJ154	M.RESISTOR CH1/16W 150K	1	
R2007		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2008		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2013-15		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	3	
R2016		ERJ6GEYJ272	M.RESISTOR CH1/16W 2.7K	1	
R2017,18		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	2	
R2019		ERJ6GEYJ224	M.RESISTOR CH1/16W 220K	1	
R2020		ERJ6GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R2021		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2022		ERJ6GEYJ224	M.RESISTOR CH1/16W 220K	1	
R2024		ERJ6GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R2025,26		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R2027		ERJ6GEYJ821	M.RESISTOR CH1/16W 820	1	
R2029		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2030		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2031		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2032		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2033		ERJ6GEYG103	M.RESISTOR CH1/16W 10K	1	
R2034		ERJ6GEYG241	M.RESISTOR CH1/16W 240	1	
R2035		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2036		ERJ6GEYJ182	M.RESISTOR CH1/16W 1.8K	1	
R2037		ERJ6GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R2038		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2039		ERJ6GEYJ474	M.RESISTOR CH1/16W 470K	1	
R2040		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2041		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R2042		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2043		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R2044,45		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	2	
R2046,47		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	2	
R2048		ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R2049		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R2050		ERJ6GEYJ474	M.RESISTOR CH1/16W 470K	1	
R2051		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2054		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2056		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2057		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R2058		ERJ6GEYJ151	M.RESISTOR CH1/16W 150	1	
R2059		ERJ6GEYJ821	M.RESISTOR CH1/16W 820	1	
R2060		ERJ6GEYJ822	M.RESISTOR CH1/16W 8.2K	1	
R2061,62		ERJ6GEYJ392	M.RESISTOR CH1/16W 3.9K	2	
R2063		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2064		ERJ6GEYJ683	M.RESISTOR CH1/16W 68K	1	
R2065		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2066		ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R2067		ERJ6GEYJ122	M.RESISTOR CH1/16W 1.2K	1	
R2068		ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R2069		ERJ6GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R2070		ERJ6GEYJ105	M.RESISTOR CH1/16W 1M	1	
R2071,72		ERJ6GEYJ562	M.RESISTOR CH1/16W 5.6K	2	
R2073		ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	1	
R2088		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R2089		ERJ6GEYG752	M.RESISTOR CH1/16W 7.5K	1	
R2090		ERJ6GEYJ561	M.RESISTOR CH1/16W 560	1	
R2093		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2094,95		ERJ6GEYJ330	M.RESISTOR CH1/16W 33	2	
R2096		ERX12SJR56P	M.RESISTOR 1/2W 0.56	1	
R2097		ERJ6GEYJ330	M.RESISTOR CH1/16W 33	1	
R2098		ERJ6GEYJ680	M.RESISTOR CH1/16W 68	1	
R2099-01		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2102,03		ERJ6GEYJ273	M.RESISTOR CH1/16W 27K	2	
R2104		ERJ6GEYJ122	M.RESISTOR CH1/16W 1.2K	1	
R2105		ERJ6GEYJ105	M.RESISTOR CH1/16W 1M	1	
R2106		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2107		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2108,09		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R2110		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R2112		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2113		ERJ6GEYJ821	M.RESISTOR CH1/16W 820	1	
R2116		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2119		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2120		ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R2121		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R2122		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2123		ERJ6GEYJ124	M.RESISTOR CH1/16W 120K	1	
R2125		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R2127		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2128-30		ERJ6GEYG223	M.RESISTOR CH1/16W 22K	3	
R2131		ERJ6GEYG303	M.RESISTOR CH1/16W 30K	1	
R2132		ERJ6GEYG224	M.RESISTOR CH1/16W 220K	1	
R2133		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2134,35		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	2	
R2136		ERJ6GEYJ821	M.RESISTOR CH1/16W 820	1	
R2137		ERJ6GEYJ273	M.RESISTOR CH1/16W 27K	1	
R2138		ERJ6GEYJ124	M.RESISTOR CH1/16W 120K	1	
R2139		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R2140		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2141		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R2142		ERJ6GEYJ474	M.RESISTOR CH1/16W 470K	1	
R2143,44		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	2	
R2145-47		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	3	
R2148,49		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	2	
R2151		ERJ6GEYJ330	M.RESISTOR CH1/16W 33	1	
R2152		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R2153		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R2154		ERJ6GEYJ105	M.RESISTOR CH1/16W 1M	1	
R2155		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6001		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R6004		ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R6005		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6006		ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6007		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6008		ERDS1TJ153	C.RESISTOR 1/2W 15K	1	
R6009		ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R6010,11		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6012		ERJ6GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R6013		ERJ6GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R6014		ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6015		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6016		ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6017		ERJ6GEYJ683	M.RESISTOR CH1/16W 68K	1	
R6018		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R6019,20		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6021		ERJ6GEYJ683	M.RESISTOR CH1/16W 68K	1	
R6022		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6023		ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	1	
R6024		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6025		ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6026,27		ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	2	
R6028		ERJ6GEYJ273	M.RESISTOR CH1/16W 27K	1	
R6029		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6030		ERJ6GEYJ564	M.RESISTOR CH1/16W 560K	1	
R6031		ERJ6GEYJ273	M.RESISTOR CH1/16W 27K	1	
R6032		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6033		ERJ6GEYJ563	M.RESISTOR CH1/16W 56K	1	
R6034		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6035		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R6036		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6037		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6038		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6039		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6040		ERJ6GEYJ105	M.RESISTOR CH1/16W 1M	1	
R6041		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6042		ERJ6GEYJ682	M.RESISTOR CH1/16W 6.8K	1	
R6043,44		ERJ6GEYJ821	M.RESISTOR CH1/16W 820	2	
R6045		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6046		ERJ6GEYJ183	M.RESISTOR CH1/16W 18K	1	
R6047		ERJ6GEYJ272	M.RESISTOR CH1/16W 2.7K	1	
R6048,49		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6050		ERJ6GEYJ272	M.RESISTOR CH1/16W 2.7K	1	
R6051		ERJ6GEYJ183	M.RESISTOR CH1/16W 18K	1	
R6052		ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R6053		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R6054		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6055-58		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	4	
R6060		ERJ6GEYJ181	M.RESISTOR CH1/16W 180	1	
R6061		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6062		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6063		ERJ6GEYJ392	M.RESISTOR CH1/16W 3.9K	1	
R6064		ERJ6GEYJ472	M.RESISTOR CH1/16W 4.7K	1	
R6065,66		ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	2	
R6067-73		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	7	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6074,75		ERJ6GEYJ682	M.RESISTOR CH1/16W 6.8K	2	
R6076		ERJ6GEYJ562	M.RESISTOR CH1/16W 5.6K	1	
R6077		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R6078		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6079		ERJ6GEYJ681	M.RESISTOR CH1/16W 680	1	
R6080		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R6081		ERJ6GEYJ683	M.RESISTOR CH1/16W 68K	1	
R6082,83		ERG1SJ300	M.RESISTOR 1W 30	2	
R6084		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6085		ERJ6GEYJ682	M.RESISTOR CH1/16W 6.8K	1	
R6086,87		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	2	
R6088		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6089		ERJ6GEYJ222	M.RESISTOR CH1/16W 2.2K	1	
R6090		ERDS1TJ2R2	C.RESISTOR 1/2W 2.2	1	
R6091,92		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6093		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6094		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6095-98		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	4	
R6099		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R6100		ERJ6GEYJ183	M.RESISTOR CH1/16W 18K	1	
R6101		ERJ6GEYJ474	M.RESISTOR CH1/16W 470K	1	
R6102		ERJ6GEYJ121	M.RESISTOR CH1/16W 120	1	
R6103		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6104,05		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	2	
R6106		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R6109		ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R6110		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6114		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R6115		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6116		ERJ6GEYJ823	M.RESISTOR CH1/16W 82K	1	
R6117		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6118		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6119-27		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	9	
R6131		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6132		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6133		ERJ6GEYJ333	M.RESISTOR CH1/16W 33K	1	
R6134		ERJ6GEYJ223	M.RESISTOR CH1/16W 22K	1	
R6135		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6136		ERJ6GEYJ101	M.RESISTOR CH1/16W 100	1	
R6137		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6138		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	1	
R6139		ERJ6GEYJ101	M.RESISTOR CH1/16W 100	1	
R6140		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R6141		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6144		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6151		ERJ6GEYJ330	M.RESISTOR CH1/16W 33	1	
SW6001		VSS0240	SWITCH	1	<R>
T6001		EIQ7QF002B	TRANSFORMER	1	
VR2001		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2003		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2201		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2202		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2203		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2204-06		EVMF6SA00B15	V.RESISTOR 100K	3	
VR2207		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2208		EVMF6SA00B23	V.RESISTOR 2K	1	
X1901		VSX0136	CRYSTAL OSCILLATOR	1	
X2001		VSX0296	CRYSTAL OSCILLATOR	1	
X2002		VSX0086	CRYSTAL OSCILLATOR	1	
X6001		VSX0230	CRYSTAL OSCILLATOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			MISCELLANEOUS		
		VMC0075	HEAT SINK ANGLE	1	
		VMX0985	SPACER	2	
		VMZ0960	HEAT SINK BARRIER	1	
		VSC1068	HEAT SINK	1	
		VSC1689	HEAT SINK	1	
		VSC2761	SHIELD CASE (TOP)	1	
		VSC2763	SHIELD CASE (BOTTOM)	1	
		VSC3427	SHIELD CASE (MAIN)	1	
		XTV3+8F	SCREW	1	
		VKC0271	HINGE CLIP	2	
	■	VEP06749J	P.C.BOARD W/COMPONENT		FOR AG-7350E/B
			FRONT		
C6201		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C6202		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C6203		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C6204		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C6205		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C6206		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C6207		ECEA0JU102	E.CAPACITOR 6.3V 1000U	1	
C6208		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6209		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C6210		ECEA1HKS220	E.CAPACITOR 50V 22U	1	
C6211		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6212		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6213,14		ECEA0JKS101	E.CAPACITOR 6.3V 100U	2	
C6215		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6216		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6217		ECEA1HKS220	E.CAPACITOR 50V 22U	1	
D6201-05		LN440YCPUVT	DIODE	5	<R>
D6206		MA151K	DIODE	1	<R>
D6207,08		LN31GCPHLG4	DIODE	2	<R>
D6209,10		LN440YCPUVT	DIODE	2	<R>
D6211		LN840RCP	DIODE	1	<R>
D6212-35		MA151K	DIODE	24	<R>
D6236,37		MA165VT	DIODE	2	<R>
D6238		MA4051-L	DIODE	1	<R>
D6239-41		MA151K	DIODE	3	<R>
D6243		MA151K	DIODE	1	<R>
D6244		LN440YCPUVT	DIODE	1	<R>
D6245-47		MA151K	DIODE	3	<R>
D6248		MA700A	DIODE	1	<R>
D6249		MA4300M	DIODE	1	<R>
D6250		MA165VT	DIODE	1	<R>
DP6201		VSL0254	DISPLAY TUBE	1	
IC6201		MN15283VSTL4	IC	1	<R>
IC6202		MN1220	IC	1	<R>
IC6203		MN1280R	IC	1	<R>
IC6204		MN1280L	IC	1	<R>
IC6205		AN78M05F	IC	1	<R>
L6201		VLQEL05K101J	COIL	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P6201-04		VJP3152	CONNECTOR (MALE)	4	
P6205		VJP3078	CONNECTOR (MALE)	1	
P6206		VJP1231T	CONNECTOR (MALE)	1	
P6207		VJP1236T	CONNECTOR (MALE)	1	
P6208		VJP1247T	CONNECTOR (MALE)	1	
P6209		VJP3093	CONNECTOR (MALE)	1	
Q6201-04		2SB643	TRANSISTOR	4	<R>
Q6205-09		2SD636	TRANSISTOR	5	<R>
Q6210		2SB642	TRANSISTOR	1	<R>
QR6201-05		MRN1404	TRANSISTOR-RESISTOR	5	<R>
QR6206		UN1112	TRANSISTOR-RESISTOR	1	<R>
QR6207		MRN1404	TRANSISTOR-RESISTOR	1	<R>
R6201-05		ERDS2TJ470	C.RESISTOR 1/4W 47	5	
R6206		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6207-11		ERDS2TJ470	C.RESISTOR 1/4W 47	5	
R6212-15		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	4	
R6216-19		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	4	
R6220-23		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	4	
R6224		ERJ6GEYJ224	M.RESISTOR CH1/16W 220K	1	
R6225		ERJ6GEYJ122	M.RESISTOR CH1/16W 1.2K	1	
R6226-33		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	8	
R6234		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R6235		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R6236		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6237		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R6238		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R6239		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6240,41		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	2	
R6242		ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R6243		ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R6244		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R6245		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6246		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R6247,48		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6249		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6250		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6251		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
RA6201-04		EXBF5E103J	COMBI.R-R	4	
RA6205		EXBF5E473J	COMBI.R-R	1	
SW6201-17		EVQQJ104K	SWITCH	17	<R>
SW6218,19		VSS0324	SWITCH	2	<R>
SW6220		VSS0225	SWITCH	1	<R>
SW6221		VSS0152	SWITCH	1	<R>
SW6222		VSS0225	SWITCH	1	<R>
SW6223		VSS0324	SWITCH	1	<R>
SW6224,25		VSS0225	SWITCH	2	<R>
SW6226		VSS0324	SWITCH	1	<R>
SW6227		VSS0225	SWITCH	1	<R>
X6201		VSX0094	CRYSTAL OSCILLATOR	1	
X6202		VSX0140	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VJF0960	DISPLAY TUBE HOLDER	1	
		VMX2062	LED SPACER	2	
	■	VEP06749K	P.C.BOARD W/COMPONENT FRONT		FOR AG-7150E/B
C6201		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C6202		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C6203		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C6204		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C6205		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C6206		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C6207		ECEA0JU102	E.CAPACITOR 6.3V 1000U	1	
C6208		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6209		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C6210		ECEA1HKS220	E.CAPACITOR 50V 22U	1	
C6211		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6212		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6213,14		ECEA0JKS101	E.CAPACITOR 6.3V 100U	2	
C6215		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6216		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6217		ECEA1HKS220	E.CAPACITOR 50V 22U	1	
D6201-05		LN440YCPUVT	DIODE	5	<R>
D6206		MA151K	DIODE	1	<R>
D6207,08		LN31GCPHLG4	DIODE	2	<R>
D6209		LN440YCPUVT	DIODE	1	<R>
D6212-16		MA151K	DIODE	5	<R>
D6218-22		MA151K	DIODE	5	<R>
D6224-35		MA151K	DIODE	12	<R>
D6236,37		MA165VT	DIODE	2	<R>
D6238		MA4051-L	DIODE	1	<R>
D6239-41		MA151K	DIODE	3	<R>
D6244		LN440YCPUVT	DIODE	1	<R>
D6245-47		MA151K	DIODE	3	<R>
D6248		MA700A	DIODE	1	<R>
D6249		MA4300M	DIODE	1	<R>
D6250		MA165VT	DIODE	1	<R>
DP6201		VSL0254	DISPLAY TUBE	1	
IC6201		MN15283VSTL4	IC	1	<R>
IC6202		MN1220	IC	1	<R>
IC6203		MN1280R	IC	1	<R>
IC6204		MN1280L	IC	1	<R>
IC6205		AN78M05F	IC	1	<R>
J6203,04		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
L6201		VLQEL05K101J	COIL	1	
P6201-04		VJP3152	CONNECTOR (MALE)	4	
P6205		VJP3078	CONNECTOR (MALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P6206		VJP1231T	CONNECTOR (MALE)	1	
P6207		VJP1236T	CONNECTOR (MALE)	1	
P6208		VJP1247T	CONNECTOR (MALE)	1	
Q6201-04		2SB643	TRANSISTOR	4	<R>
Q6205-09		2SD636	TRANSISTOR	5	<R>
Q6210		2SB642	TRANSISTOR	1	<R>
QR6201-05		MRN1404	TRANSISTOR-RESISTOR	5	<R>
QR6206		UN1112	TRANSISTOR-RESISTOR	1	<R>
QR6207		MRN1404	TRANSISTOR-RESISTOR	1	<R>
R6201-05		ERDS2TJ470	C.RESISTOR 1/4W 47	5	
R6206		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6207-09		ERDS2TJ470	C.RESISTOR 1/4W 47	3	
R6212-15		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	4	
R6216-19		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	4	
R6220-23		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	4	
R6224		ERJ6GEYJ224	M.RESISTOR CH1/16W 220K	1	
R6225		ERJ6GEYJ122	M.RESISTOR CH1/16W 1.2K	1	
R6226-33		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	8	
R6234		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R6235		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R6236		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6237		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R6238		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R6239		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6240,41		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	2	
R6242		ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R6243		ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R6245		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6246		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R6247,48		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6249		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6250		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6251		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
RA6201-04		EXBF5E103J	COMBI.R-R	4	
RA6205		EXBF5E473J	COMBI.R-R	1	
SW6201		EVQQJ104K	SWITCH	1	<R>
SW6203-07		EVQQJ104K	SWITCH	5	<R>
SW6209-17		EVQQJ104K	SWITCH	9	<R>
SW6218		VSS0225	SWITCH	1	<R>
SW6220		VSS0225	SWITCH	1	<R>
SW6221		VSS0152	SWITCH	1	<R>
SW6222		VSS0225	SWITCH	1	<R>
SW6223		VSS0324	SWITCH	1	<R>
SW6224		VSS0225	SWITCH	1	<R>
SW6226		VSS0225	SWITCH	1	<R>
X6201		VSX0094	CRYSTAL OSCILLATOR	1	
X6202		VSX0140	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0960	DISPLAY TUBE HOLER	1	
		VMX2062	LED SPACER	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP06749L	P.C.BOARD W/COMPONENT		FOR AG-7355E/B
			FRONT		
C6201		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C6202		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C6203		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C6204		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C6205		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C6206		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C6207		ECEA0JU102	E.CAPACITOR 6.3V 1000U	1	
C6208		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6209		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C6210		ECEA1HKS220	E.CAPACITOR 50V 22U	1	
C6211		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6212		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6213,14		ECEA0JKS101	E.CAPACITOR 6.3V 100U	2	
C6215		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6216		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6217		ECEA1HKS220	E.CAPACITOR 50V 22U	1	
D6201-05		LN440YCPUVT	DIODE	5	<R>
D6206		MA151K	DIODE	1	<R>
D6207,08		LN31GCPHLG4	DIODE	2	<R>
D6209,10		LN440YCPUVT	DIODE	2	<R>
D6211		LN840RCP	DIODE	1	<R>
D6212-32		MA151K	DIODE	21	<R>
D6234,35		MA151K	DIODE	2	<R>
D6236,37		MA165VT	DIODE	2	<R>
D6238		MA4051-L	DIODE	1	<R>
D6239-41		MA151K	DIODE	3	<R>
D6242		MA165VT	DIODE	1	<R>
D6244		LN440YCPUVT	DIODE	1	<R>
D6245-47		MA151K	DIODE	3	<R>
D6248		MA700A	DIODE	1	<R>
D6249		MA4300M	DIODE	1	<R>
D6250		MA165VT	DIODE	1	<R>
DP6201		VSL0254	DISPLAY TUBE	1	
IC6201		MN15283VSTL4	IC	1	<R>
IC6202		MN1220	IC	1	<R>
IC6203		MN1280R	IC	1	<R>
IC6204		MN1280L	IC	1	<R>
IC6205		AN78M05F	IC	1	<R>
L6201		VLQEL05K101J	COIL	1	
P6201-04		VJP3152	CONNECTOR (MALE)	4	
P6205		VJP3078	CONNECTOR (MALE)	1	
P6206		VJP1231T	CONNECTOR (MALE)	1	
P6207		VJP1236T	CONNECTOR (MALE)	1	
P6208		VJP1247T	CONNECTOR (MALE)	1	
P6209		VJP3093	CONNECTOR (MALE)	1	
Q6201-04		2SB643	TRANSISTOR	4	<R>
Q6205-09		2SD636	TRANSISTOR	5	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q6210		2SB642	TRANSISTOR	1	<R>
QR6201-05		MRN1404	TRANSISTOR-RESISTOR	5	<R>
QR6206		UN1112	TRANSISTOR-RESISTOR	1	<R>
QR6207		MRN1404	TRANSISTOR-RESISTOR	1	<R>
R6201-05		ERDS2TJ470	C.RESISTOR 1/4W 47	5	
R6206		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6207-11		ERDS2TJ470	C.RESISTOR 1/4W 47	5	
R6212-15		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	4	
R6216-19		ERJ6GEYJ104	M.RESISTOR CH1/16W 100K	4	
R6220-23		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	4	
R6224		ERJ6GEYJ224	M.RESISTOR CH1/16W 220K	1	
R6225		ERJ6GEYJ122	M.RESISTOR CH1/16W 1.2K	1	
R6226-33		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	8	
R6234		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R6235		ERJ6GEYJ332	M.RESISTOR CH1/16W 3.3K	1	
R6236		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
R6237		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R6238		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R6239		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6240,41		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	2	
R6242		ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R6243		ERJ6GEYJ471	M.RESISTOR CH1/16W 470	1	
R6245		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6246		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R6247,48		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	2	
R6249		ERJ6GEYJ102	M.RESISTOR CH1/16W 1K	1	
R6250		ERJ6GEYJ473	M.RESISTOR CH1/16W 47K	1	
R6251		ERJ6GEYJ103	M.RESISTOR CH1/16W 10K	1	
RA6201-04		EXBF5E103J	COMBI.R-R	4	
RA6205		EXBF5E473J	COMBI.R-R	1	
SW6201-17		EVQQJ104K	SWITCH	17	<R>
SW6219		VSS0324	SWITCH	1	<R>
SW6220		VSS0225	SWITCH	1	<R>
SW6221		VSS0152	SWITCH	1	<R>
SW6222		VSS0225	SWITCH	1	<R>
SW6223		VSS0324	SWITCH	1	<R>
SW6224,25		VSS0225	SWITCH	2	<R>
SW6227		VSS0225	SWITCH	1	<R>
X6201		VSX0094	CRYSTAL OSCILLATOR	1	
X6202		VSX0140	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0960	DISPLAY TUBE HOLDER	1	
		VMX2062	VMX2062	2	
	■	VEP04344D	P.C.BOARD W/COMPONENT		FOR AG-7350E/B
			REAR JACK		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6901		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6902		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
J6901		VJS3155	CONNECTOR (FEMALE)	1	
J6902,03		VJS3154	CONNECTOR (FEMALE)	2	
J6904		VJS3155	CONNECTOR (FEMALE)	1	
J6905,06		VJS3154	CONNECTOR (FEMALE)	2	
J6907,08		VJJ0324	AUDIO JACK	2	
J6909-12		VJJ0323	AUDIO JACK	4	
P6901,02		VJP3152	CONNECTOR (MALE)	2	
P6903		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
P6903		VJP3152	CONNECTOR (MALE)	1	
P6905		VJP1230T	CONNECTOR (MALE)	1	
R6901-04		ERDS2TJ750	C.RESISTOR 1/4W 75	4	
R6905,06		ERDS2TJ103	C.RESISTOR 1/4W 10K	2	
	■	VEP04344E	P.C.BOARD W/COMPONENT		FOR AG-7150E/B
			REAR JACK		
C6903		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
J6903		VJS3154	CONNECTOR (FEMALE)	1	
J6904		VJS3155	CONNECTOR (FEMALE)	1	
J6905,06		VJS3154	CONNECTOR (FEMALE)	2	
J6909,10		VJJ0323	AUDIO JACK	2	
J6911,12		VJJ0322	MONITOR JACK	2	
P6901-03		VJP3152	CONNECTOR (MALE)	3	
P6905		VJP1230T	CONNECTOR (MALE)	1	
R6904		ERDS2TJ750	C.RESISTOR 1/4W 75	1	
R6906		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
	■	VEP04344F	P.C.BOARD W/COMPONENT		FOR AG-7355E/B
			REAR JACK		
C6901		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6902,03		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
J6901		VJS3155	CONNECTOR (FEMALE)	1	
J6902		VJS3154	CONNECTOR (FEMALE)	1	
J6904		VJS3155	CONNECTOR (FEMALE)	1	
J6905,06		VJS3154	CONNECTOR (FEMALE)	2	
J6907,08		VJJ0324	AUDIO JACK	2	
J6909,10		VJJ0323	AUDIO JACK	2	
J6912		VJJ0322	MONITOR JACK	1	
P6901-03		VJP3152	CONNECTOR (MALE)	3	
P6905		VJP1230T	CONNECTOR (MALE)	1	
R6901-03		ERDS2TJ750	C.RESISTOR 1/4W 75	3	
R6905,06		ERDS2TJ103	C.RESISTOR 1/4W 10K	2	
	■	VEP00R80B	P.C.BOARD W/COMPONENT SEAVO TP		
P2203		VJP1236T	CONNECTOR (MALE) 9P	1	
P2205		VJP1230T	CONNECTOR (MALE) 3P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks